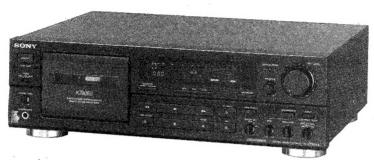
TC-K790ES

SERVICE MANUAL

AEP Model



Dolby noise reduction and HX Pro headroom extension manufactured under license from Dolby Laboratories Licensing Corporation. HX. Pro originated by Bang & Olufsen. "DOLBY", the double-D symbol [1] and "HX PRO" trademarks of Dolby Laboratories Licensing Corporation.

Model Name Using Similar Mecanism	TC-K770ES
Tape Transport Mechanism Type	TCM-200D9

SPECIFICATIONS

Recording system Fast winding time

4-track 2-channel stereo

Bias Heads

Motors

Approx. 90 sec. (with Sony C-60 cassette) AC bias

Erasing head × 1 (S&F head) Recording head × 1 (Permalloy head)

Playback head x 1 (Permalloy head)

Capstan motor ×1 (direct drive linear torque

Reel motor × 1 (DC motor)

Signal-to-noise ratio (at peak level)

Cassette	Type IV (Sony	Type II	Type I
(Dolby NR OFF)	Metal-S)	(Sony UX-S)	(Sony HF-S)
	61 dB	59 dB	57 dB

Measured at peak level weithted without NR. The S/N is improved by about 15 dB at 500 Hz and by about 20 dB about 1 kHz with Dolby-C NR on, and by 5 dB at 1 kHz and by 10 dB about 5 kHz with DolbyB-NR on.

Harmonic distortion

1.5% (with Sony Metal-S 250 nWb/m,

315Hz, 3rd H.D.)

Frequency response (Dolby NR OFF)

Type IV cassette (Sony Metal-S)	20 - 21,000 Hz (±3 dB, IEC) 20 - 16,000 Hz (±3 dB (-4 dB recording)]
Type II cassette (Sony UX-S)	20 - 19,000 Hz (±3 dB, IEC)
Type I cassette (Sony HF-S)	20 - 17,000 Hz (±3 dB, IEC)

Wow and flutter

± 0.05% W.Peak (IEC) 0.025% W.RMS (NAB) ± 0.07% W.Peak (DIN)

Line inputs	Sensitivity	0.16V
(phono jacks)	Input impedance	47 k ohms
CD DIRECT INPUT	Input impedance	47 k ohms

Outputs

Line outputs (phono jacks)	Rated output level	0.5 V at a load impedance of 47 k ohms
	Load impedance	Over 10 k ohms
Headphones (stereo phone jack)	Output level	0 - 3 mW at a load impedance of 32 ohms

General

Power requirements

220 - 230 V AC, (or 240 V AC adjustable by Sony personnel),

50/60 Hz

Power consumption Dimensions

Approx. $430 \times 135 \times 350$ mm (w/h/d)

 $(17 \times 5\% \times 13^{7/6} \text{ inches})$

including projecting parts and controls Approx. 6.9 kg (15 lbs 4 oz)

Weight Supplied accessories

Audio connecting cords (2)

Design and specifications are subject to change without notice.



STEREO CASSETTE DECK SONY

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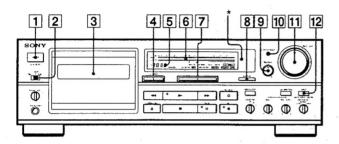
SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK A OR DOTTED LINE WITH MARK A ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SECTION 1 GENERAL

This section is extracted from instruction manual.

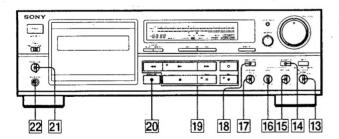
Identifying the **Parts**



Front Panel

For details, refer to the page number indicated in parenthesis.

- 1 POWER switch
- 2 TIMER switch (50)
- 3 Cassette holder
- 4 Counter buttons RESET button (26) MEMORY button (24, 26)
- 5 LINEAR COUNTER (26)
- 6 PEAK PROGRAM METER (32)
 7 AMS (Automatic Music Sensor) buttons
- MONITOR button (34)
- BALANCE control (28)
- DISPLAY MODE button (18)
- REC (recording) LEVEL control (28, 32)
- 12 INPUT button (28)
 - * Remote control sensor You can remotely control this cassette deck with:
 - A remote commander that came with a Sony amplifier or receiver if it has the I mark and cassette deck control capability.
 - An optional Sony remote commander with the B mark and cassette deck control capability.



- 13 REC EQ CAL (recording equalizing calibration) switch (LOW, NORMAL, HIGH) (42)
- 14 CALIBRATION button (40)
- 15 REC (recording) LEVEL control for calibration (36, 40)
- 16 BIAS control (36, 40)
- 17 DOLBY NR (noise reduction) switch (18,
- 18 MPX FILTER button (32)
- 19 Tape operation buttons and indicators
 - ◄ (rewind) button
 - (stop) button
 - (play) button and indicator
 - ▶► (fast-forward) button
 - REC (recording) button and indicator
 - II PAUSE button and indicator
 - O REC MUTE (record muting) button (48)

- 20 ≜ OPEN/CLOSE button 21 PHONE (headphones) LEVEL control 22 HEADPHONES jack (stereo phone jack) (20)

Recording

Recording FM Broadcasts with the Dolby NR System

When recording FM broadcasts with the Dolby NR system, set the MPX FILTER button to ON (the "FILTER" indicator appears).

The MPX filter eliminates remnants of the 19-kHz stereo carrier and 38-kHz subcarrier signals which may impair the operation of the DOLBY NR system. Be sure that the Dolby NR switch is turned on since the MPX filter will not function otherwise. During recording with the Dolby NR system, use this switch only if the tuner is not equipped with its own MPX filter or the equipped filter does not function effectively.

Adjusting the Recording Level

The optimum recording level, which differs according to the tape type, is indicated on the PEAK PROGRAM METER for each tape type.

Adjust the REC LEVEL control as high as possible without exceeding the recommended range for the tape type being

PEAK PROGRAM METER recording by tape type

Fig. A shows the recommended maximum PEAK PROGRAM METER readings.

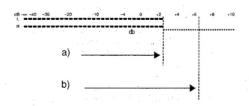
a) for Type I (normal) or Type II (CrO₂) tape

b) for Type IV (metal) tape

Tips on recording level adjustment

- If the recording level setting is too high, the recording will be distorted; if it is too low, the tape will produce a hissing sound. Therefore, the recording level should be set as high as possible without causing distortion.
- If the program source to be recorded has many high frequency signals, set the level to a relatively low position.

A



Monitoring the Recorded Sound

As this unit has three separate heads for recording, playback and erasure, you can check the quality of a recorded sound by comparing it with the input source signal.

To listen to the input source signal, set the MONITOR button to SOURCE. (Fig. A)

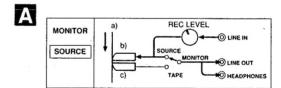
To listen to the sound recorded on the tape, set the MONITOR button to TAPE. (Fig. 3)

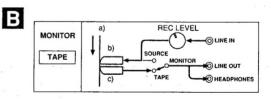
Fig. A and B show the MONITOR button setting and their respective signal flow.

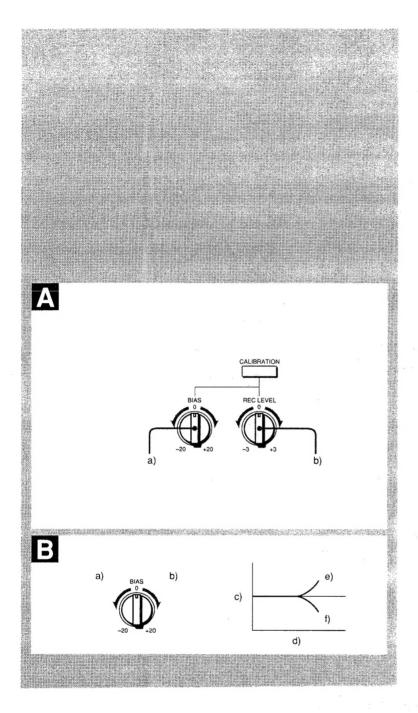
- a) Band
- b) Recording head
- c) Playback head

Comparing the recorded sound with the sound source

While recording, use this monitoring function to check that there is no distortion due to excessive level settings or sound degradation due to head contamination.







Making an Optimum Recording

Bias and Recording Level Calibration

There are many different types of cassettes on the market, each with varying magnetic properties. Although your unit is equipped with the ATS (Automatic Tape Selection) system which sets the appropriate equalization characteristics and bias current for each tape type, an additional calibration adjustment can often produce even better results. Use the bias current and recording level calibration function to obtain the optimum recording conditions for your tape.

Fig. A shows the BIAS control and REC (recording) LEVEL control for calibration.

- a) Adjusts bias current within ±20%
- b) Adjusts recording level within ±3 dB

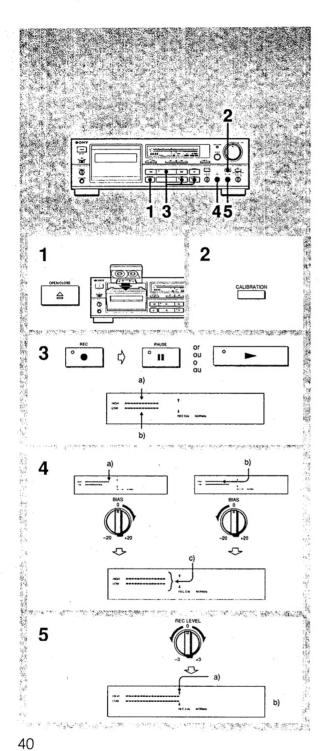
Bias calibration

Choosing the optimum bias current for a tape ensures minimum distortion and flat frequency response. Lowering the bias current boosts high-frequency response, but also results in higher distortion. Raising the bias, on the other hand, reduces distortion, but also dampens high-frequency response. Optimum bias is thus obtained when the bias current and high-frequency response are well balanced.

Fig. B shows the BIAS control and a highfrequency response balance chart.

- A) High-frequency response rises
 High-frequency response drops
- c) Output (level in dB)
- d) Frequency in Hz
- e) Bias reduced (-)
- f) Bias increased (+)

(Continued on next page.)



Making an Optimum Recording

- 1 Insert the cassette to be used for recording.
- 2 Press CALIBRATION.
- 3 Press , then II or ► to activate the recording test tone.
 - a) Playback level for an 8-kHz signal b) Playback level for a 400-Hz signal

Note

- . The sound cannot be monitored during the calibration operation.
- · It takes 2 to 3 seconds for the test tone level to stabilize.
- 4 Adjust BIAS until both meters indicate equal playback levels.
 - a) A high reading on the upper meter indicates a low bias current.
 b) A low reading on the upper meter

 - indicates a high bias current.
 c) An equal reading on both meters indicates the optimum bias current condition.
- 5 Adjust REC LEVEL CALIBRATION until both meters reach the recommended level (REC CAL).

 - a) Recommended level
 b) The bias current is now adjusted to the oblas current is now adjusted to the optimum level and the tape sensitivity compensation has been set. Press ■, then set CALIBRATION to OFF, Rewind the tape and start the actual recording.

Recording Equalization Calibration

Although bias currrent and equalization are automatically set by the Automatic Tape Selection (ATS) function for the tape being used, you can use the REC EQ CAL switch to change the recording characteristics according to the nature of the source material or to compensate for the particular characteristics of the tape.

Fig. A shows the REC EQ CAL switch.
a) To emphasize higher frequencies in

recordings
b) For normal recordings

c) To dampen higher frequencies in recordings

Bias Calibration Recording Use the REC EQ CAL switch in conjunction with the BIAS control to modify bands of sound and record according to the tape's characteristics.

· When recording music which has strong middle and low frequencies Set the bias at flat with the REC EQ CAL switch set in the HIGH position to increase Adjust the BIAS control so that the HIGH and LOW meters indicate equal readings.

· When recording music which has strong high frequencies Set the bias at flat with the REC EQ CAL switch set in the LOW position to decrease the bias current. Adjust the BIAS control so that the HIGH and LOW meters indicate equal readings.

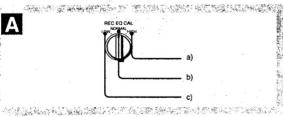
Note

With metal tape, because the amount of frequency characteristic modulation is not in proportion to that of the bias, the optimum bias current may not be obtained using the methods above.

Another use of the REC EQ CAL

When using special tapes, adjusting the BIAS control with the REC EO CAL switch set in the NORMAL position may not result in equal readings on the HIGH and LOW meters. If this occurs, adjust the BIAS control after setting the REC EQ CAL switch to HIGH or LOW.

A



Recording

What is the Dolby HX PRO System?

The Dolby HX PRO system provides improved linearity in high-range frequency response during recording. Tapes recorded with this system retain the same high quality even when played back on other tape decks.

As shown in Fig. A , characteristics such as output level and distortion differ widely according to the bias (high-frequency) current.

Fig. A

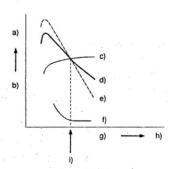
- High Distortion output a) b)
- c) 315 Hz
- 6.3 kHz d)
- 10 kHz
- 315 Hz distortion f)
- Bias current
- h) High
- Established bias current

In conventional systems (see Fig. B), the bias current is susceptible to variations in certain recording signals which may cause fluctuations in frequency response. distortion, or other unwanted characteristics.

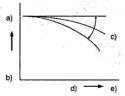
- Fig. B .
 a) High
 b) Output Output
 - c) Fluctuation d) Frequency
 - e) High

With the Dolby HX PRO system, the effective bias amount added to the bias current is controlled in millisecond units to greatly reduce distortion, improving linearity in high-range response and ensuring high-intensity recording with minimal distortion

> A

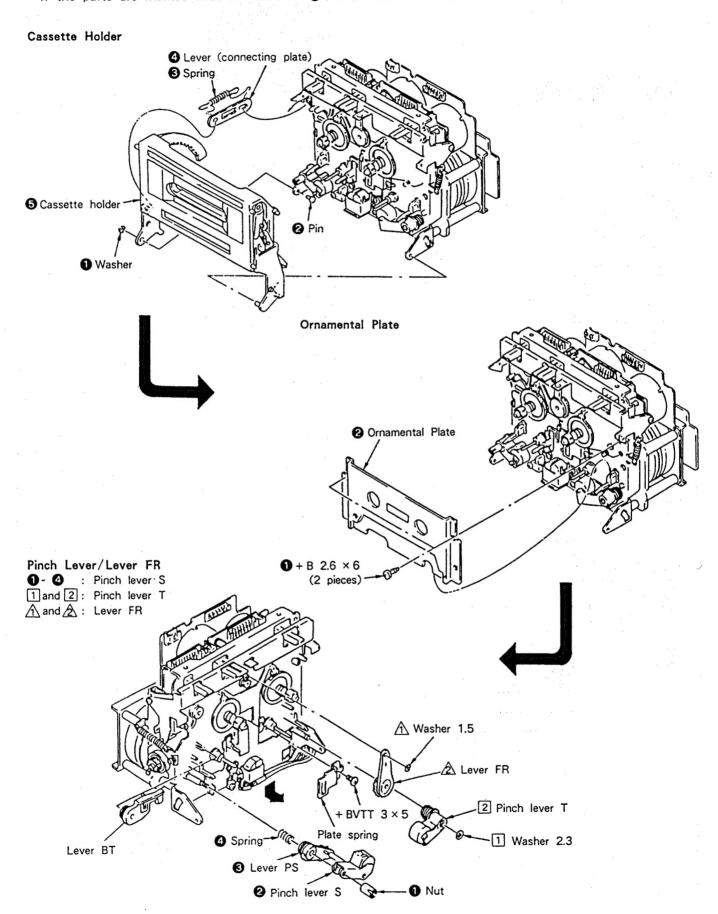


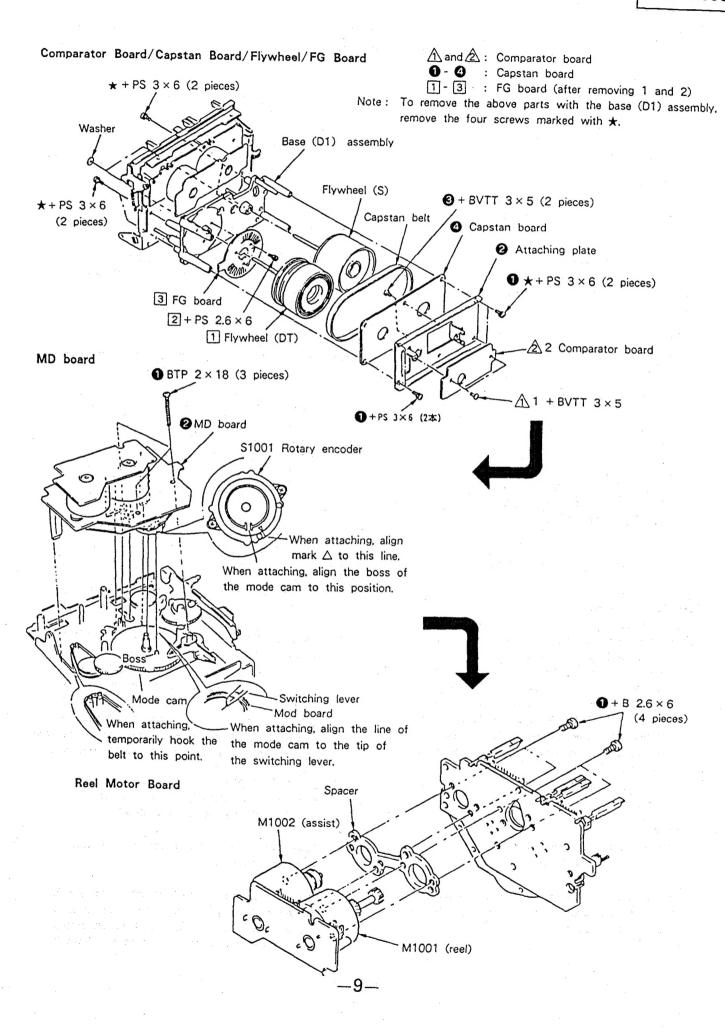
В



SECTION 2 DISASSEMBLY

· If the parts are marked with the numbers 1 , etc., remove them in the order of the number.





SECTION 3 ADJUSTMENTS

3-1. MECHANICAL ADJUSTMENTS

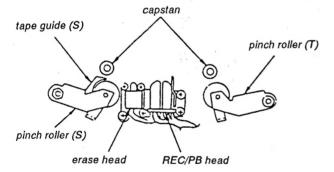
PRECAUTION

 Clean the following parts with a denatured alcohol-moistened swab:

> record/playback head erase head capstan

pinch roller rubber belts idlers

- 2. Demagnetize the record/playback and erase head with a head demagnetizer.
- 3. Do not use a magnetized screwdriver for the adjustments.
- After the adjustments, apply suitable locking compound to the parts adjusted.
- 5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.



Tape Path Adjustment

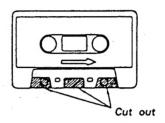
· Refer to Adjustment Position on page 12.

Note: When using the adjustment methods for other than replacement reasons, please do not tamper unnecessarily with the adjustment screws or the erasehead because either the supply pinch roller guide or the record/playback head will be made the standard tape paths. Moreover, when it is necessary to adjust and replace two or more of any of the heads and/or pinch rollers, replace them one by one, completely taking out the first tape path, and then replacing the second one.

Preparation:

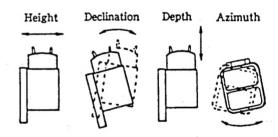
 Mirror cassette CQ009C 8-909-708-01 (or CQ012C 8-909-708-02)

If one does not have this, cut out the sections of a 120-minute cassette shell as indicated below and use that cassette.



- Phillips screwdriver (medium-size):
 For the head adjustment screws
 Blade-type screwdriver (large-size):
 For the supply pinch roller adjustment screws
- 3. Pen light
- 4. WS-48B (3 kHz, 0 dB)
- 5. P-4-A100 (10 kHz, -10 dB)

Definition of Terms: The figures are of a record/playback head.



Adjustment Method:

Supply Pinch Roller

Note: Only perform this adjustment when the supply pinch roller is to be replaced.

- Insert the mirror cassette and put the unit in record/playback mode.
- Check to see whether the tape is curling at the record/playback head guide or the pinch roller guide.

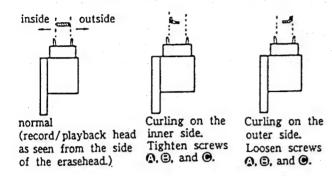
If it is curling, remove the curl by adjusting the tape curl adjustment screw. Then, check that the tape is running past the middle of the erasehead.

Record/playback Head

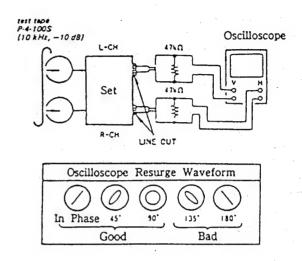
Note: Only perfom this adjustment when the record /playback head is to be replaced.

- 1. Insert the mirror cassette and put the unit in record/playback mode.
- 2. (Height Adjustment) Check to see if the tape is curling at the tape guide of the head. If it is curling, tighten screws Q, Q, and Q, respectively by the same angle, moving the head so that it

remains at the same angle throughout the procedure. If it curls on the bottom side of the mirror cassette (actually the inner side), tighten all the screws equally; but loosen them if the tape begins to curl on the top side (outer side).



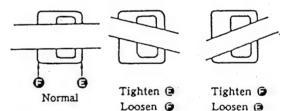
- 3. (Declination Adjustment) While in the record/ playback position, set the back tension to 0 (wind the supply reel with something thin like a pencil in a counterclockwise direction) and make sure there is no curling or shifting (shifting up/ shifting down) at the guide of the record/ playback head.
 - Because shifting can only occur due to a difference in the width of the tape and that of the tape guides (curling will otherwise occur), it is necessary to pay close attention since it can be easily overlooked. When there is a shift, tighten screws ② and ③ equally and change the declination of the head. If the tape is shifting up, tighten the screws, and if it is shifting down, loosen them.
- Repeat the adjustments in steps 2 and 3 and fine adjust the height and the declination.
- 5. (Preliminary Azimuth Adjustment)
 After demagnetizing and cleaning the adjustment head, play back WS-48B (3 kHz, 0 dB).
 Turn screw © so that the reading on the level meter of the unit or that of the level meter connected to LINE OUT is maximized.
 If the screw is turned at least half a revolution, repeat the adjustments from step 1.
- 6. (Tape Path Check) Connect the oscilloscope to LINE OUT and play back P-4-A100 (10 kHz, -10 dB) to display a resurge waveform. After 20 seconds of record/playback (after the tension within the loop has been increased sufficiently), make sure the variation in the resurge is within ± 90 degrees (within ± 45 degrees is desired). If the variation is greater than this, it is because the declination and/or the height adjustment is not perfect. Repeat the adjustments from step 1.



Erasehead

Note: Only perform this adjustment when the erasehead is to be replaced.

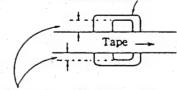
- Insert the mirror cassette and put the unit in record/playback mode.
- 2. (Azimuth Adjustment) Adjust the azimuth of the erasehead by adjusting screws 3 and 5 so that the tape runs as evenly as possible.



(The erasehead as seen when erasing the mirror cassette.)

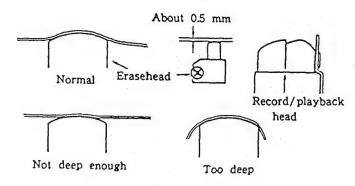
3. (Height adjustment) Turn screws ①, ③, and ⑤ all by the same angle so that the portions of the erasehead visible at top and bottom are nearly of equal width. If the width at the top is greater, tighten the screws; if the width at the bottom is greater, loosen the screws.

Erasehead (The erasehead as seen through the mirror cassette.)



Make these the same width.

- 4. (Declination Adjustment) Leaving it in the playback position, put the back tension to 0 and make certain the erasehead part and supply pinch roller guide part do not shift. If there is a shift, turn the screw and change the declination. Looking at it using the mirror cassette, if the tape shifts up, tighten the screw, and if it shifts down, loosen the screw.
- 5. Repeat the adjustments beginning with step 2 and fine adjust the height and declination. And make sure the tape does not curl up on the pinch roller guide or the guide part of the record/playback head.
- 6. (Depth Adjustment) In order to make the entire head play the tape smoothly, and to make sure the depth of the erasehead is neither too shallow nor too deep, loosen screw @ a bit.

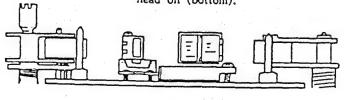


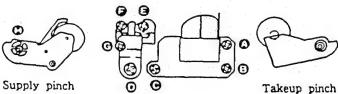
Check

roller

- Check to make sure that there are no curls or shifts throughout the whole tape path and that the tape runs smoothly.
- Reapply the locking compound to the adjusted screws. (The locking compound should only be applied to screw @ after the azimuth has been adjusted.)

Adjustment Position: As seen from the cassette, side (top) and MD as seen head on (bottom).





Erasehead Record/playback head

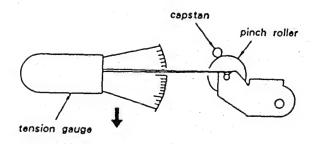
Pinch Roller Pressing Force Measurement

Mode: playback

Hook needle of the tension gauge to the pinch roller shaft and push back pinch roller to detach it from capstan. Then, return it gradually to capstan and read the gauge when the pinch roller begins turnning.

Standard Limits:

Tape-up side: 270 - 350g (9.5 - 120z)Supply side: 180 - 280g (6.4 - 9.90z)



roller

3-2. ELECTRICAL ADJUSTMENTS

Note: The adjustment should be performed in the order given in this service manual.

The adjustments should be performed for both L-CH and R-CH.

• Simultaneous REC/PB Mode:

Input the signals to LINE IN terminal and set to REC mode. Set the monitor switch to TAPE, and monitor the recorded signal for LINE OUT terminal.

• Switch Position:

DOLBY NR····· OFF
TIMER · · · · OFF
MONITOR · · · · TAPE
HX PRO····· OFF
CALIBRATION · · · · OFF
CD DIRECT ····· OFF
BIAS····· CENTER CLICK
REC LEVEL CENTER CLICK

• Standard Record:

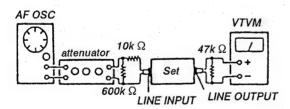
Deliver the standard input signal level to the input jack and set the REC LEVEL control to obtain the standard output signal level.

Standard Input Level

Input Terminal	LINE IN
source impedance	10 k Ω
input level	0.25 V (-10 dB)

Standard Output Level

Output Terminal	LINEOUT
load impedance	47 kΩ
output level	0.44 V (-5 dB)



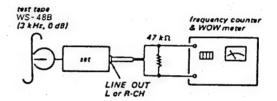
Torque Adjustment and Measurement

- Insert a tape for torque measurement, CQ-102C, and put the set to PLAY mode. Adjust RV801 so that the reading of the torque meter is 40 ± 3g.cm.
- After the adjustment, measure the back-tension and the FF/REW torque and check that the following specifications are satisfied.

Torque	Torque Meter	Reading
FWD	CQ-102C	35 - 45g·cm (0.49 - 0.62oz·inch)
FWD Back tension	CQ-102C	7-11g·cm (0.097-0.15oz·inch)
FF/REW	CQ-201B	65 - 90g · cm (0.9 - 1.4oz · inch)

Tape Speed/WOW Check

Procedure:



- 1. Measure the output frequency and the WOW value while playing back the tape top of the test tape.
- 2. Turn over the test tape, measure the output frequency and the WOW value, and check the difference from the values of the step 1.

Adjustment Limits:

TAPE SPEED deviation: within 2,985 to 3,015Hz WOW (WRMS): 0.05 % or less

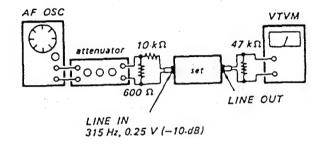
MPX FILTER Check

Setting: DOLBY switch: OFF

MPX FILTER switch: OFF

Procedure:

1. Mode: stop



- Apply 315Hz, 0.25V (-10dB) signal and adjust REC LEVEL (RV502) control so that the LINE OUT level is 0.44V (-5dB).
- 3. Apply 19kHz 0.25V (-10dB) signal and confirm that the LINE OUT level is 0.013V (-35dB) or less.

Adjustment Limits:

DOLBY NR switch: B or C

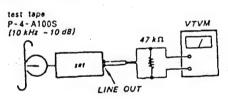
MPX FILTER switch: Line output level when ON. 315Hz: Within 0.49 to 0.39V (within -4dB to -6dB)

19kHz: 0.013V (-35dB) or less

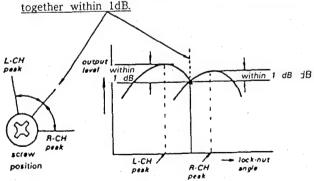
Record/Playback Head Azimuth Adjustment

Procedure:

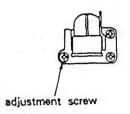
1. Mode: playback



 Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until doth of output levels match together within 1dB.



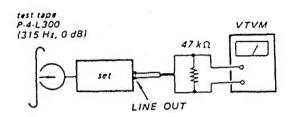
Adjustment Location:



Playback Level Adjustment

Procedure:

1. Mode: playback



Adjust RV101 (L-CH) and RV201 (R-CH) to obtain the specified LINE OUT level.

Adjustment Limits:

LINE OUT level: 0.338 to 0.301 V

(-7.2 to -8.2 dB)

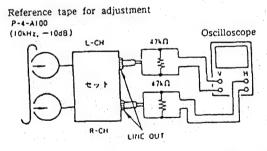
Level difference between channels:

less than 0.5 dB

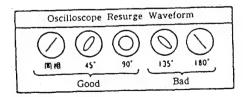
Check that the LINE OUT level does not change in playback mode while changing the mode from playback to stop several times.

3. Phase check

- Play mode -

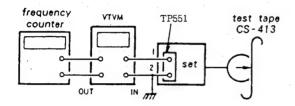


4. Check that the phase difference between L-ch and R -ch is within 0 \sim (same to 90°).



Erase Current Adjustment

1. Mode: record



- Adjust RV553 so that the reading on VTVM is 110mV (erase current = 110mA).
- And then confirm that the reading on the frequency counter is 160kHz.

Adjustment Limits:

Erase current: 105mA to 110mA

Frequency: 160 ± 6kHz

Bias Current Adjustment

Note: This adjustment should be made before

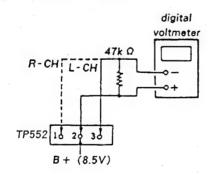
Record Bias Adjustment.

Procedure:

- Preset RV303 (L-CH) and RV403 (R-CH) and RV554 in the center position, and record with no signal.
- 2. Adjust T401 (L-CH) and T301 (R-CH) for minimum readings on the digital voltmeter.

Adjustment Limits:

120mV or less. (reference)



CrO₂ Bias and Record Level Adjustment

Note: This adjustment should be made before

Record Bias Adjustment.

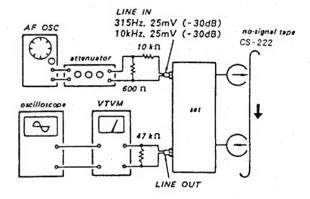
Setting:

REC LEVEL knob: standard record position

(See page 13.)

Procedure:

1. Mode: simultaneous REC/PB



- Adjust RV403 (L-CH) and RV303 (R-CH) so that the playback output level of 10kHz signal is 0.3dB 0.3dB with respect to that of 315Hz. • Record Bias Adjustment.
- Adjust RV401 (L-CH) and RV301 (R-CH) so that the playback output level of 315kHz is 25.3dB to -24.7dB.
 Record Level Adjustment.

Metal Bias Adjustment

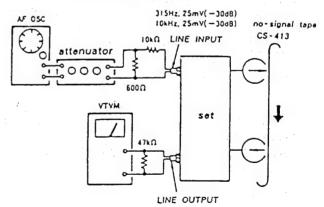
Setting:

REC LEVEL Knob: standard record position

(See page 13.)

Procedure:

1. Mode: simultaneous REC/PB



2. Adjust RV554 so that the difference between the playback output at 315Hz and that of 10kHz in R-CH is within 0.3 dB to -0.3dB.

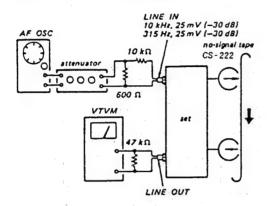
Normal Bias Adjustment

Setting:

REC LEVEL knob: standard record position (See page 13.)

Procedure:

1. Mode: simultaneous REC/PB

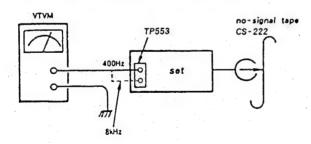


- Adjust RV302 (L-CH) and RV402 (R-CH) so that the difference between the playback output at 315Hz and that of 10kHz in R-CH is within 0.3dB to -0.3dB.
- 3. Set the HXPRO switch to OFF.
- Adjust RV104 (L-CH) and RV204 (R-CH) so that the difference between the playback output at 10kHz when the HXPRO is ON and that of 10kHz when ON is within 0.5dB to -0.5dB.

Calibration OSC and Calibration Meter Adjustment Setting: CALBRATION switch: ON

Procedure (OSC OUT LEVEL):

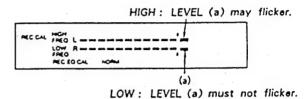
1. Mode: record (no-signal (LINE INPUT))



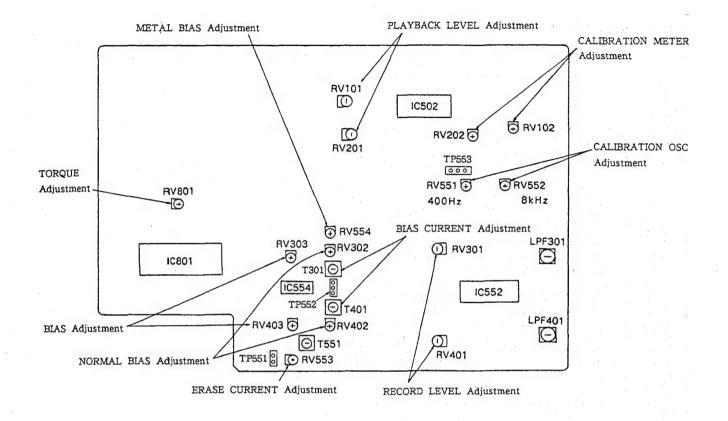
- Adjust RV551 so that a check-point level at 400Hz is 95dB to 10.5dB.
- Adjust RV552 so that a check-point level at 8kHz is 9.5dB to 10.5dB.

Procedure (CAL METER ADJ):

- Put the set in record mode and adjust RV202 (HIGH) so that HIGH FREQ segments in the CAL LEVEL meter light thoroughly up to 0 VU as shown in the figure below. Segment (a) may flicker.
- Preset RV102 (LOW) so that segment (a) in LOW FREQ CAL LEVEL meter lights. Then adjust RV102 to the point where segment (a) goes out.



Adjustment Location: MAIN (A) BOARD (COMPONENT SIDE)



SECTION 4 DIAGRAMS

4-1. DESCRIPTION ON IC

IC502, IC552 (CX20188)

An electronic switch circuit for the operation mode control is included. Controls are performed by adding direct current voltages VH, VM, and VL to Dolby OFF/B/C and calibration/REC/Playback terminals.

REC IN I REF PB IN L/REC/PB	Positive power supply terminal. Recording input terminal. Reference current input terminal. Playback input terminal.
REC IN I REF PB IN L/REC/PB	Recording input terminal. Reference current input terminal. Playback input terminal.
INE OUT SSK VF IN HPF H TCH 2 TCH I WT H TCL 2	Calibration/recording/playback select terminal Playback feedback terminal. Recording feedback terminal. CND terminal. Line output (decode output) terminal. Spectral skewing switch terminal. Encode circuit input terminal. HLS high-pass filter terminal. HLS detector time constant terminal 2. HLS detector time constant terminal 1. HLS encoder error reduction terminal. LLS detector time constant terminal 2. LLS detector time constant terminal 1. LLS encoder error reduction terminal 1. LLS necoder error reduction terminal 1. LLS high-pass filter terminal. LLS high-pass filter terminal. Recording output (encode output) terminal. Dolby NR off/B type/C type select terminal. Calibration input terminal.
	REC FB CND INE OUT SSK VF IN HPF H TCH 2 TCH I WT H TCL 2 TCL I WT L HPF L ANT S REC OUT OFF/B/C

IC901 (M50940 - 313SP)

Level meter display of 24-segment fluorescent display, etc., are performed by receiving direction from the master microcomputer (IC801).

Pin No.	Pin name	1/0	Description
1.	Vref	I	A/D input-port reference voltage input(+5Y)
2.	φL	I	Not used. (Connected to +5V)
3.	φR	I	Not used. (Connected to +5V)
4.	DATA	1	Data input from the master microcomputer(IC801)(analog)
5. ∼6.	ADE1~ADRO	I	Data input from the master microcomputer(IC801)(analog)
7.	KEY	I	Not used. (Connected to +5V)
8.	LEVEL L	I	Level meter L-CH input(analog) from the meter amplifier(IC514)
9.	LEVEL R	I	Level meter R-CH input(analog) from the meter amplifier(IC514)
10. ~13.	GRID6~GRID3	0	Not used.
14. ~15.	GRID2∼GRID1	0	Fluorescent display grid output
16.	<u>C00</u>	0	Not used.
17.	PLAY	0	Not used. (Connected to pin @B.)
18.	PLAY	0	Not used.
19.	PAUSE	0	Not used.
20.	REC	0	Not used.
21.	TAPE	0	Fluorescent display segment output ("TAPE" displayed). "L": TAPE displayed. "H": SOURCE
			displayed.
22.	OVER LEVEL	0	Fluorescent display segment output ("OVER LEVEL" displayed). It is displayed when "L".
23.	TYPE I	0	Fluorescent display segment output("TYPE I" displayed). It is displayed when "L".
24.	TYPE II	0	Fluorescent display segment output("TYPE II" displayed). It is displayed when "L".
25.	TYPE IV	0	Fluorescent display segment output("TYPE II" displayed). It is displayed when "L".
26.	CNVss	-	Power supply terminal(GND)
27.	RESET	I	Reset input
28.	XIN	I	Clock input(4MHz)
29.	XOUT	0	Clock outupt.
30.	XCIN	-	Not used. (Connected to GND)
31.	XCOUT	-	Not used.
32.	Vss	-	Power supply terminal(GND)
33.	Φ	0	Not used.
34.	VER	I	Version switching input(Always set to "L")
35.	TEST	I	Test mode input. "L": All the lamps of the meter are lit.
36.	CAL	I	Calibration switch(S602) input. "L": CAL mode. "H": Normal mode.
37.	IN	I	Not used. (Connected to GND.)
38.	VP	I	Fluorescent display segment output's pull-down power supply terminal(-22V)
39. ∼62.	S23~S0	0	Fluorescent display segment output(meter display)
63.	AVcc	-	Power supply terminal(+5V)
64.	Vcc	-	Power supply terminal(+5V)

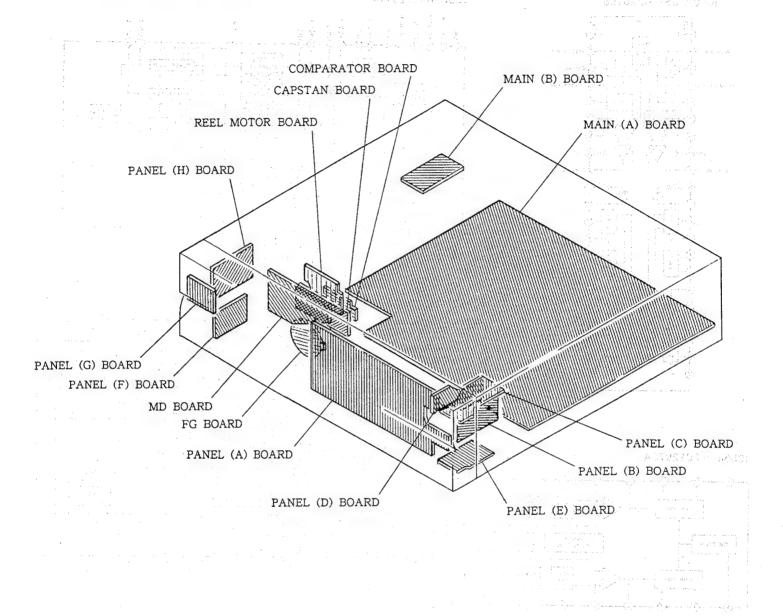
IC801 (M50964-226SP)

Description Pin No. ·Pin name 1/0 VCC Power supply: 15V. Analog GND. AVSS A/D port reference voltage linput. seren sien a rest federa wish Vref 3. Not used for this model. A fine the model would be not used for this model. DA PWM Not used for this model. 5. Not used for this model. Connected to GND. P. OFF 6. LED PAUSE LED output. 7. REC LED output. LED 0 8. 9. LED 0 PLAY LED output. Key input $0V = \triangle$, $1V = \blacksquare$, 2V = 4, $3V = \rightarrow$, $4V = \bigcirc$. Key input $0V = \rightarrow$, 1V = 11, 2V = 14, $3V = \rightarrow$, $4V = \bigcirc$. AD1 10. AD2 -1 11. AMS signal input. No song detected = Low. Song detected = High. AMS SIG 1 12. Key input. 2V = DISPLAY. 3V = MONITOR. 13. AD4 1 Remote control category select switch. CODE 14. 1 Connected to 5V. ALB 15. ØR Take-up reel base sensor input. 16. Supply reel base sensor input. 17. ØL Model select input. Connected to GND. C RESET 18. Model select input. Connected to GND. 19. C MEMORY 20. Not used for this model. C00 Power on and off detection. POWER IN 21. SIRW SIRCS phase input. 22 1 SIRCS reverse phase input. 23. T-REC Timer REC switch input. 24. 1 T-PLAY 4 Timer PLAY switch input. 25. 26. INT External interruption input. Interruption process is performed when the power is on or off. GND. Vss 27. RESET I Reset input. 28. Clock input (4 MHz). 29. XIN 30. XOUT Clock output (4 MHz). Not used for this model. 31. ϕ out 32. Vss Rotary encoder input to detect the position of the head base of the mechanical block. 33. Cī Rotary encoder input to detect the position of the head base of the mechanical block. C2 34. Ŧ C3 Rotary encoder input to detect the position of the head base of the mechanical block. 35. Rotary encoder input to detect the position of the head base of the mechanical block. OPEN switch input of the mechanical block. C4 36. OPEN SW 37. CLOSE SW CLOSE switch input of the mechanical block. 38. DOOR switch input of the mechanical block. DOOR SW 39. 1 REC switch input of the mechanical block. 40. REC SW 1 Reel motor rotates at PLAY speed. M PLAY n 41. Reel motor rotates at FF/REW speed. M FAST 42. 0 Reel motor rotates. M FWD 43. M REV 0 Reel motor rotates in reverse. 44. Head base DOWN output of the mechanical block CAM DOWN 0 45. Head base UP output of the mechanical block 46. CAM UP 0 Counter light-off output C OFF 0 47. M OFF 0 Meter light-off output 48. Bias oscillation on and off control 49. BIAS 0 REC MUTE. n 50. R Mt 51. M Mt Not used for this model. Tape MUTE. Goes to low when the tape is being played. TMt 0 52. S Mt Source MUTE. Goes to low three seconds after the power is on. 53. AMS switch output. Goes to low when AMS is being used. AMS 0 54. Not used for this model. Connected to GND. MONITOR 55. Not used for this model. Connected to GND. 56. HALF 0 Outputs parallel data for the counter display. 57. DAT3 58. DAT2 0 Outputs parallel data for the counter display. Outputs parallel data for the counter display. 59. DAT1 n Outputs parallel data for the counter display. 60: DATO 0 Outputs parallel data for the counter display. 61. DATD 0 0 Clock output to transmit the parallel data. 62. CLK Output for latching the transmitted data. LATCH 0 63. CAL IN 64. CAL switch input.

TRAISE - CARRIERA FORCA

ANGRES STORY TRACKETT

4-2. CIRCUIT BOARDS LOCATION



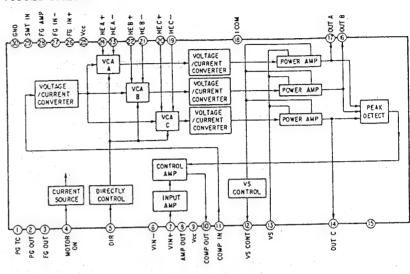
4-3. IC BLOCK DIAGRAMS

PLAYBACK IN 20

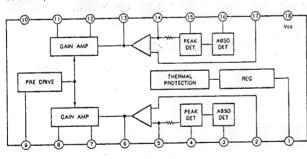
GNO OF THE CONT IN 1

SO THE CON

1C902B CX20174



IC554 μ PC1297CA

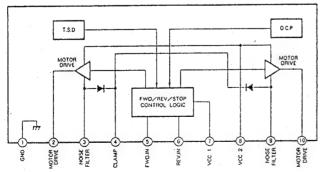


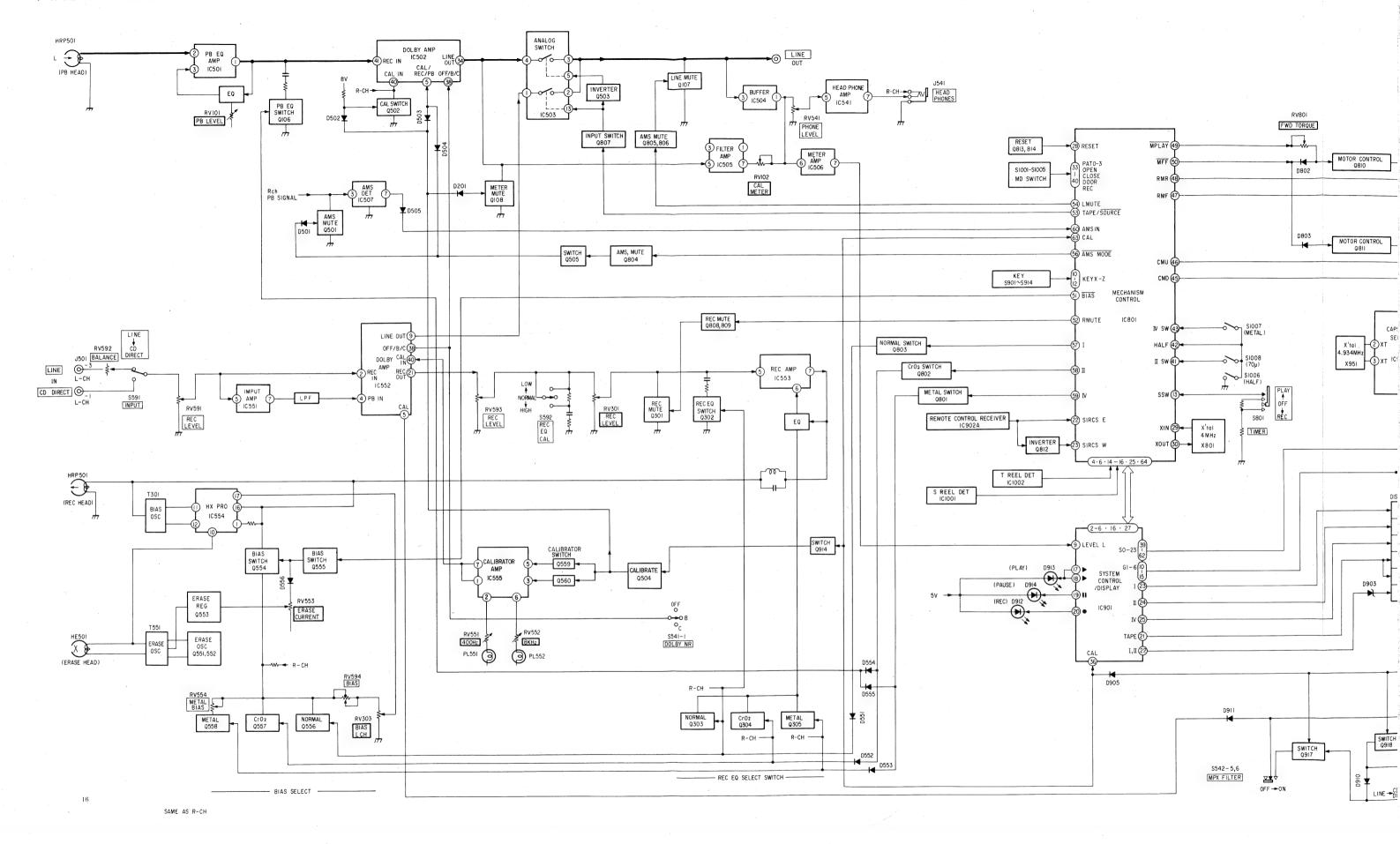
IC952 TC 9142P

TO THING ON THE PROPERTY OF TH

IC802 BA6219B

IC803 LB1641





30DF2

1N4148M

10E2N

^ Anode

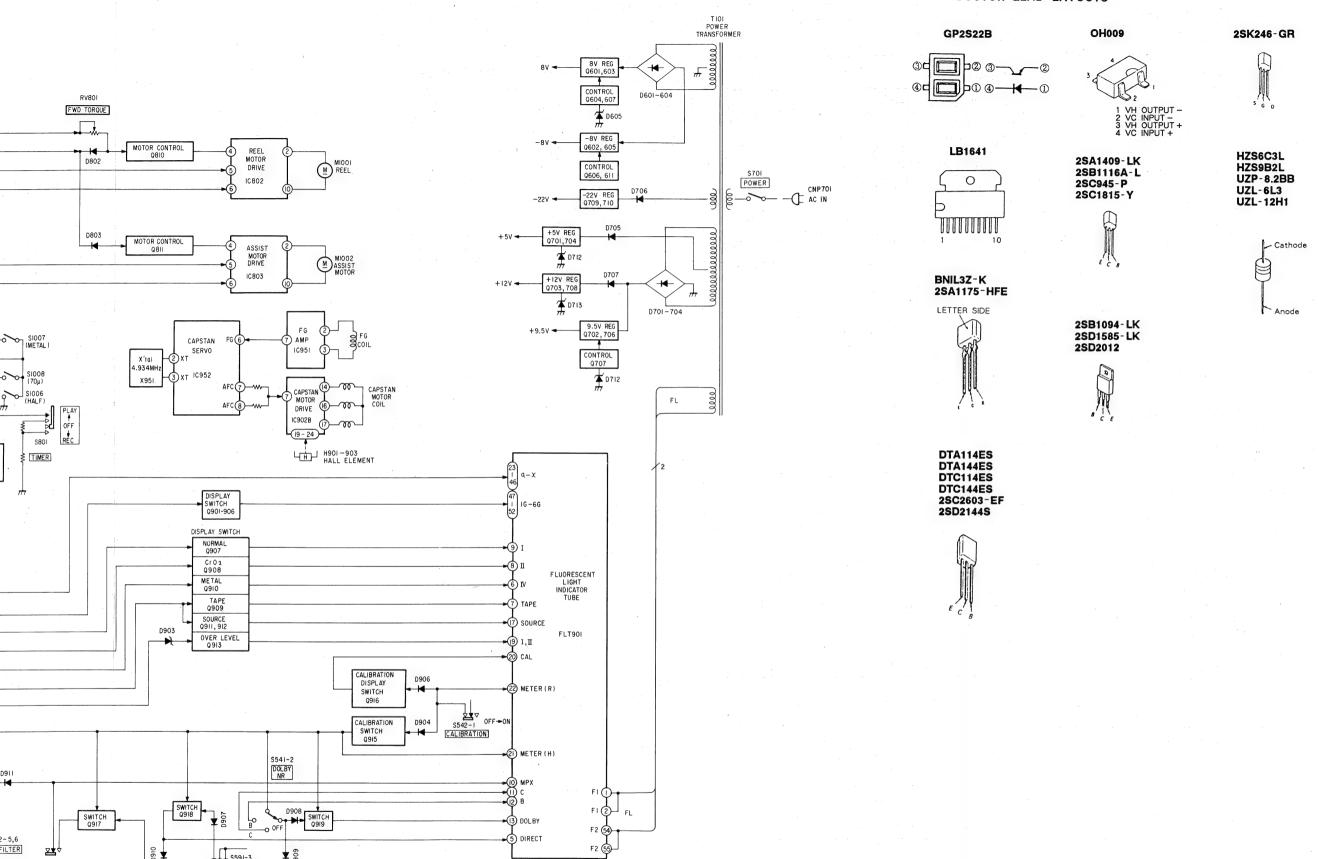
Anode

SEL1210S SEL1210S-C SEL1910A-C

Cathode

Anode

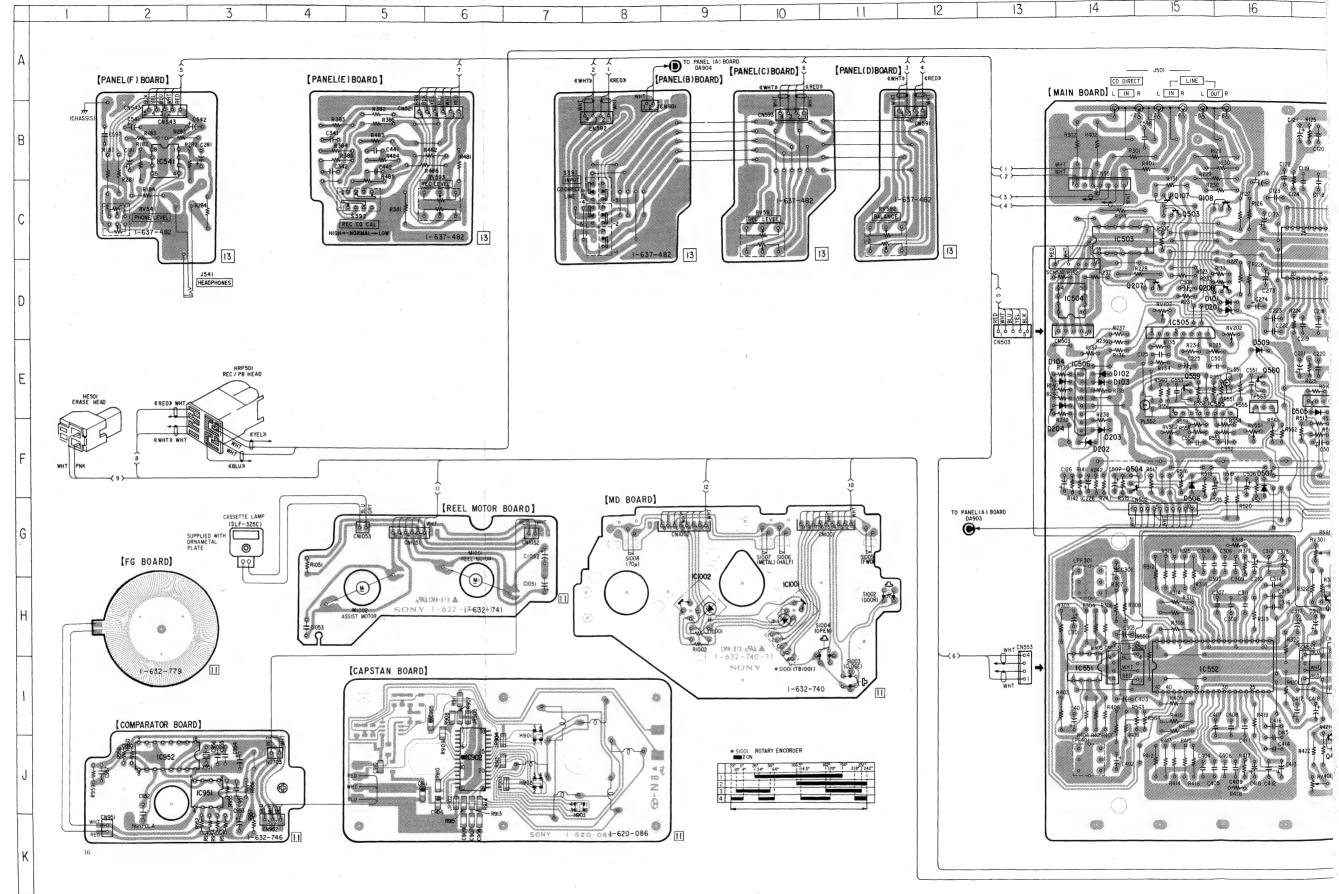
4-5. SEMICONDUCTOR LEAD LAYOUTS



4-6. PRINTED WIRING BOARDS - MAIN SECTION - See page 21 for Circuit Boards Location. See page 26 for Semiconductor Lead Layouts.

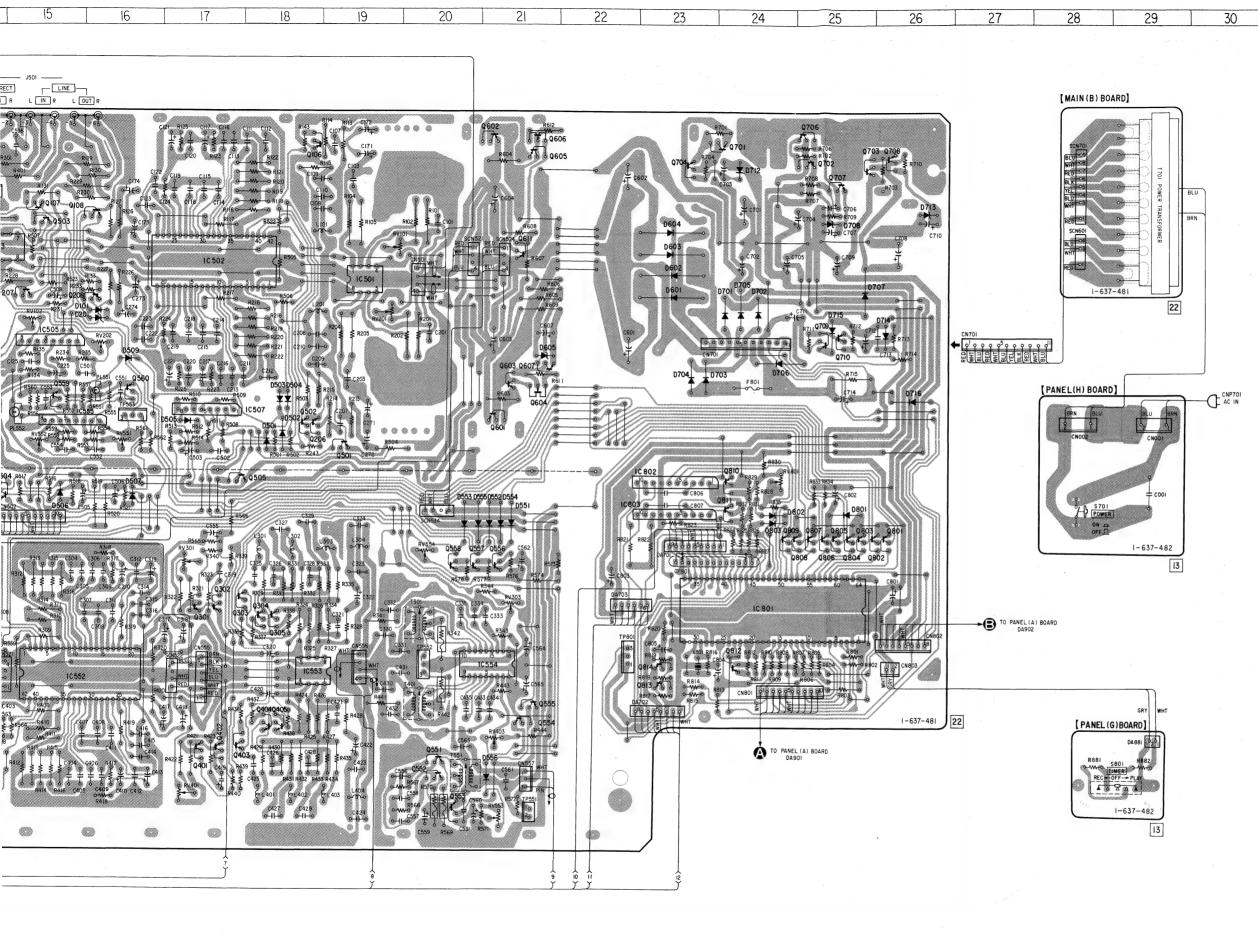
Semiconductor Location

Γ	Ref. No.	Location	Ref. No.	Location
	D103 D104 D202 D104 D202 D203 D504 D505 D506 D506 D506 D5552 D5554 D5556 D5556 D5556 D50601 D702 D708 D707 D708 D7113 D7114 D715 D802 D803	E-14436144388F-1886-1996-1996-1996-1996-1996-1996-1996	0106 0107 0108 0201 0202 0203 0204 0205 0206 0207 0208 0301 0302 0303 0304 0401 0402 0403 0404 0405 0406 0501 0505 0551 0553 0554 0555 0556 0557 0558 0559 0601 0602 0603 0604 0605	B-18 C-15 C-15 E-20 E-17 H-17 H-18 H-19 J-17 J-18 H-17 J-18 H-17 J-18 H-17 J-18 H-17 J-19 F-19 J-20 G-21 E-21 G-21 E-21 E-21 E-21 E-21 E-21 E-21 E-21 E
	IC501 IC502 IC503 IC504 IC505 IC506 IC507 IC551 IC552 IC553 IC555 IC801 IC802 IC803 IC902 IC902 IC901 IC1001 IC1002 IC1001	J-3 J-2 H-10	Q606 Q607 Q611 Q701 Q702 Q703 Q704 Q706 Q707 Q708 Q709 Q710 Q801 Q803 Q804 Q805 Q806 Q807 Q808 Q809 Q811 Q811 Q812 Q813 Q814	B-21 E-21 C-22 B-22 B-22 B-22 B-22 B-22 B-22 B-22

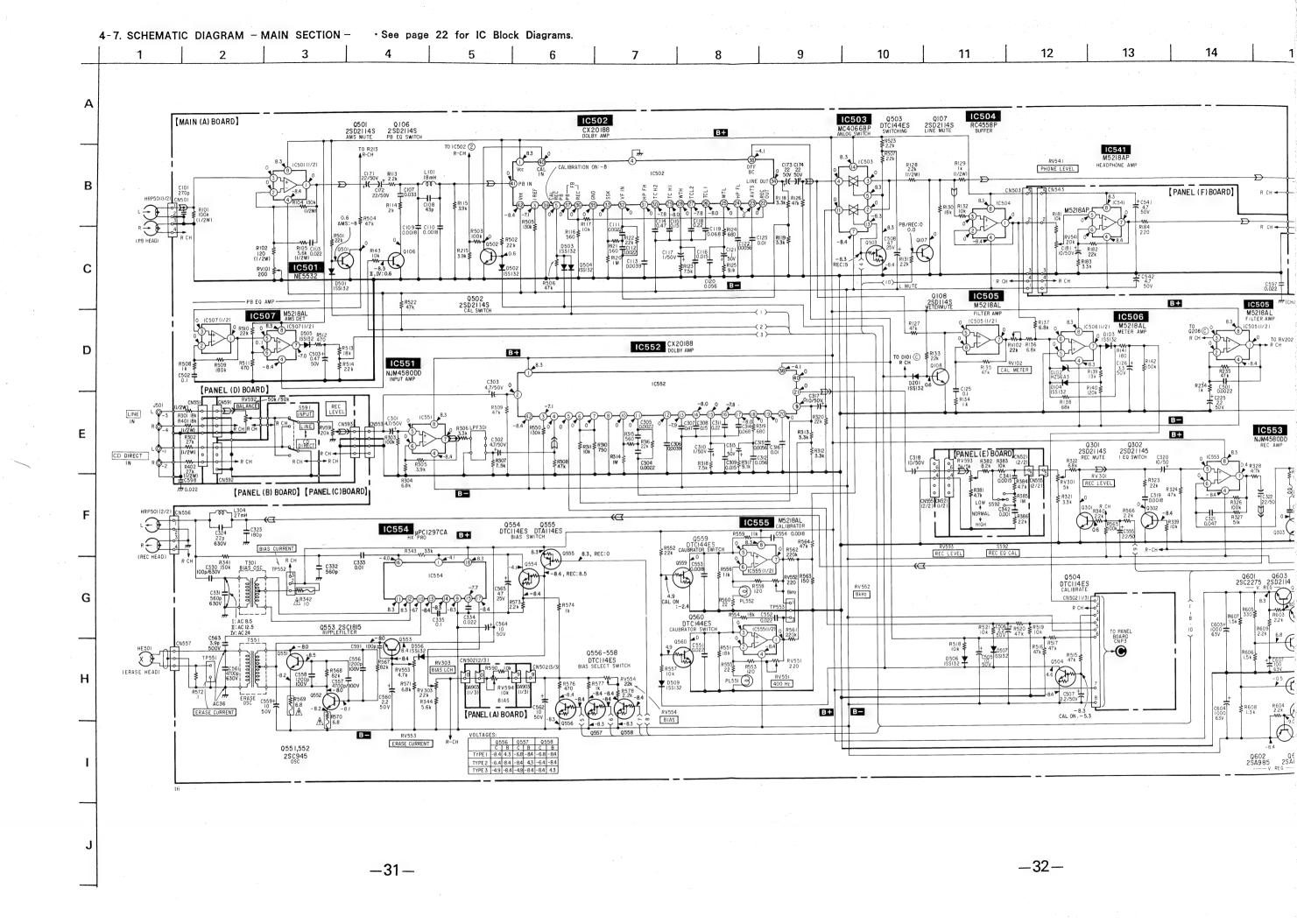


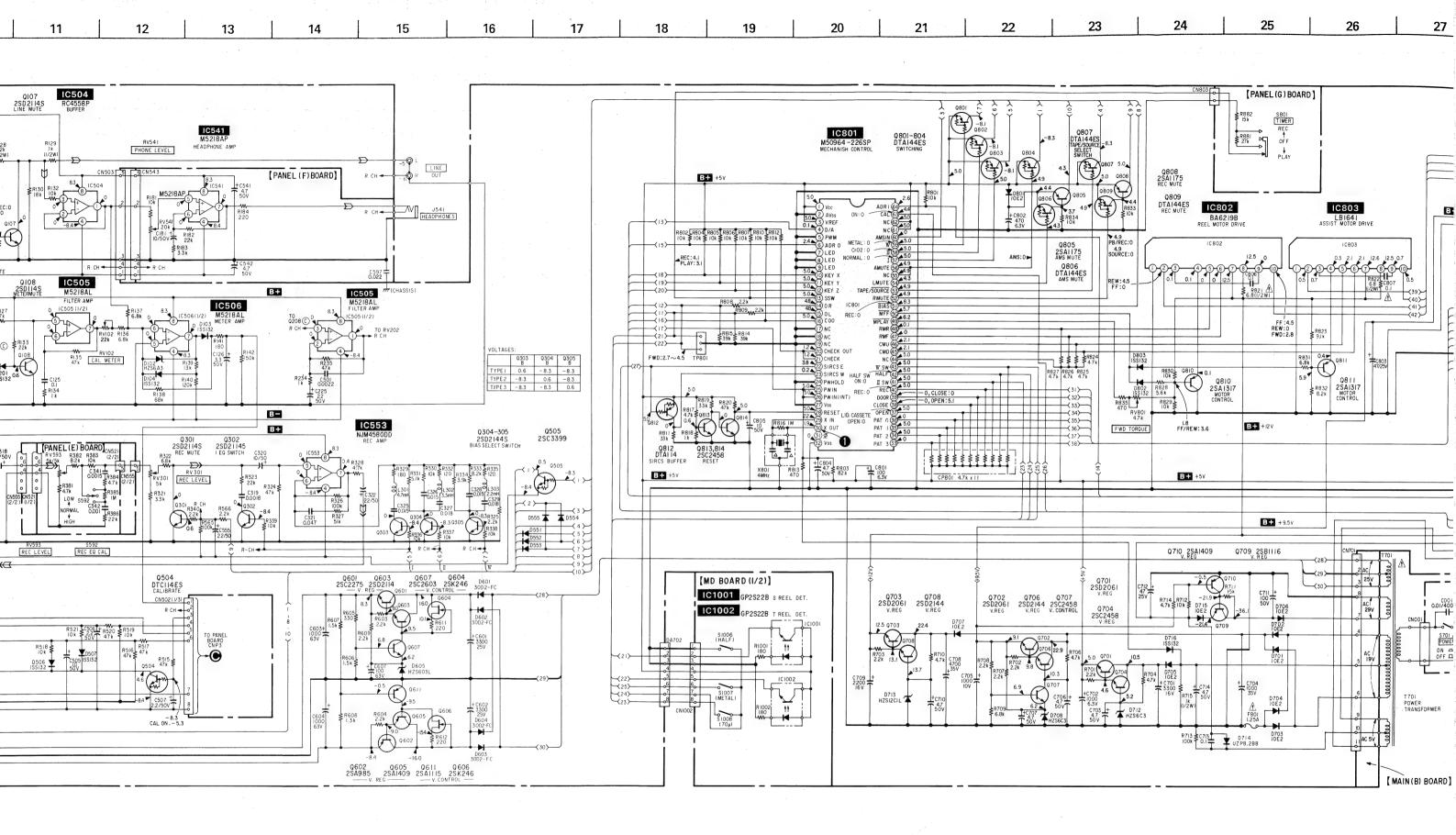
Note on Mounting Diagram:

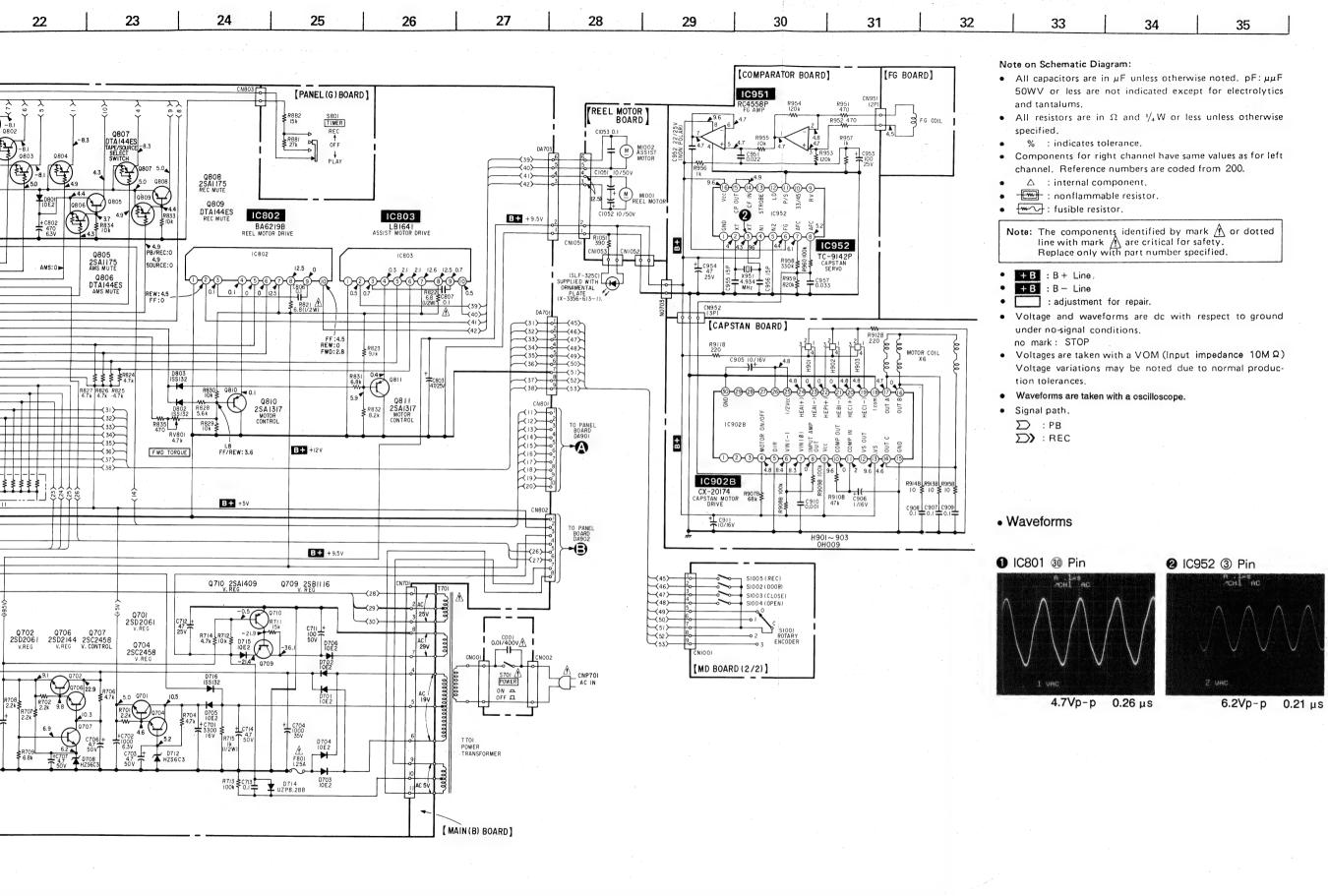
- o---: parts extracted from the component side.
- parts mounted on the conductor side.

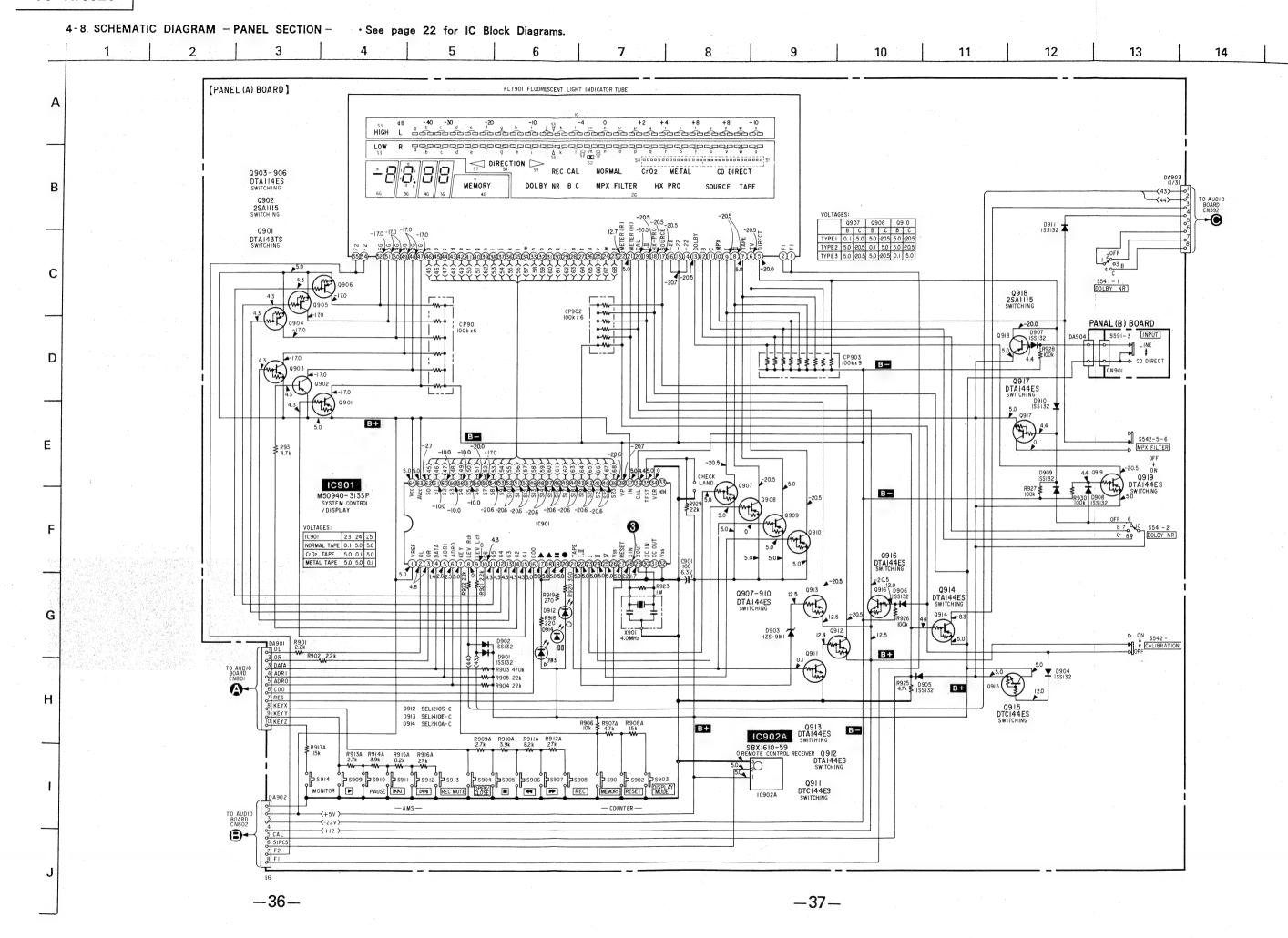


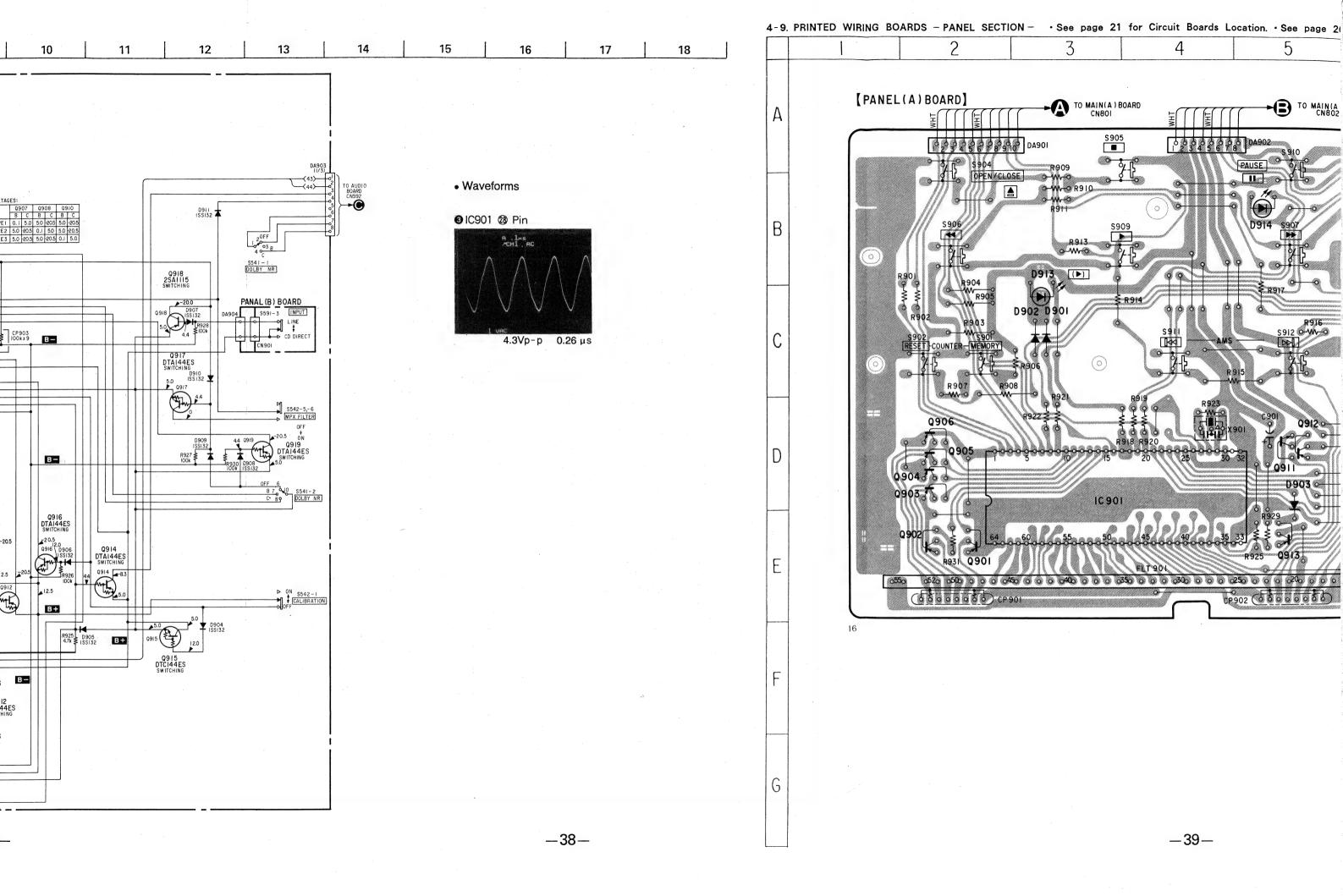
33

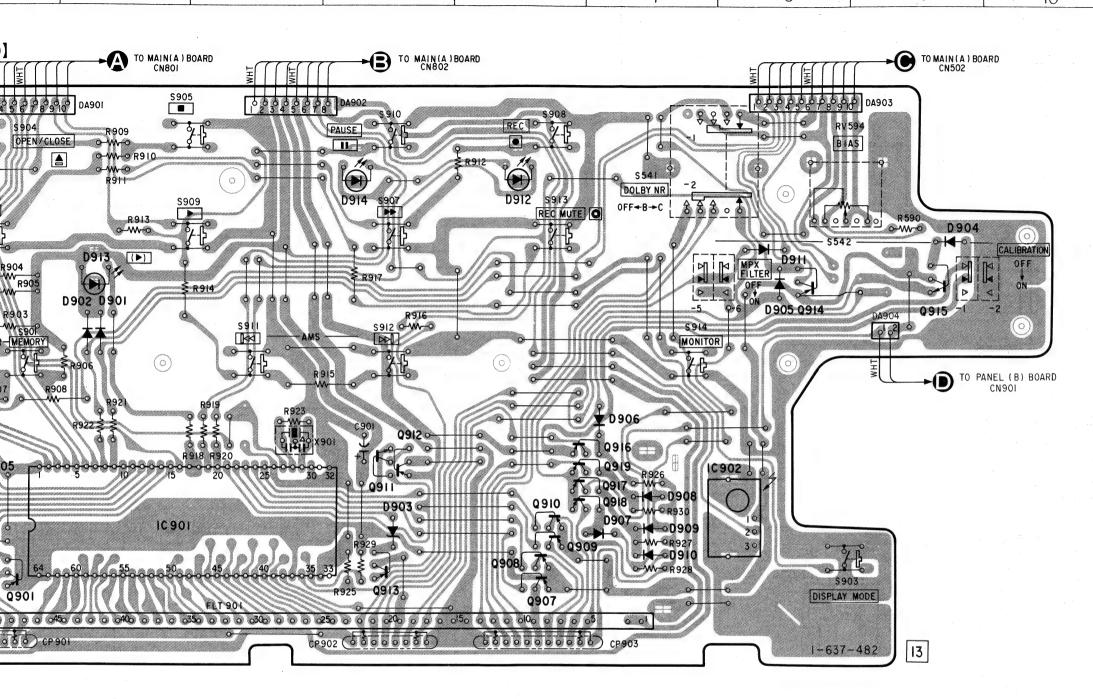












Semiconductor Location

- 561	11100	naactor
Ref.	No.	Location
D9 D9 D9 D9 D9 D9 D9 D9	02 03 04 05 06 07 08	C-3 C-3 D-5 B-9 C-8 D-7 D-7 D-7 E-7 B-8 B-6 C-3 B-5
IC9	01 02B	D-3 D-8
999999999999999999999999999999999999999	05 06 07 08	22222266665558977777

Note on Mounting Diagram:

• o---: parts extracted from the component side.

SECTION 5 EXPLODED VIEWS

NOTE:

- XX, X mean standardized parts, so they may have some differences from the original one.
- Color Indication of Appearance Parts Example:

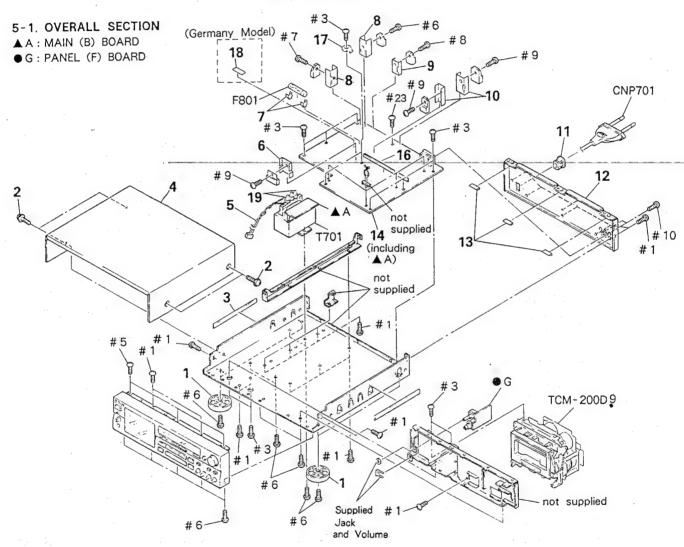
KNOB, BALANCE (WHITE)...(RED)

Parts color Cabinet's color

 Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list is given in the last of this parts list.

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.
Replace only with part number specified.



		• (1)					
Ref.	No. Part No.	Description	Remarks	Ref.	No. Part No.	Description	Remarks
1	X-3304-944-1	FOOT ASSY		12	* 3-378-828-01	PANEL, BACK (Germany)	
2	3-704-366-01	SCREW (CASE) (M3X8)		12	* 3-378-828-11	PANEL, BACK (AEP)	
3	* 3-657-780-00	CUSHION		13	3-831-441-XX	CUSHION, SPEAKER	
4	4-925-039-61	CASE		14	* A-2006-780-A	MAIN BOARD, COMPLETE	
5	* 1-590-321-51	LEAD (WITH CONNECTOR)		16	* 1-560-242-91	BUS BAR 10P	
6	* 3-356-925-01	HEAT SINK		17	4-870-539-00	PLATE, GROUND	
7	* 1-533-213-31	HOLDER FUSE		19	* 4-912-962-01	COVER (1P), TERMINAL	
8	4-902-345-01	HEAT SINK		T701	▲1-450-856-11	TRANSFORMER, POWER	
9	* 3-309-144-21	HEAT SINK		F801	△1-532-285-00	FUSE, TIME-LAG	
10	* 4-880-403-11	HEAT SINK		CNP70	1 ▲1-575-651-11	CORD, POWER	
•							
11	* 3-703-244-00	BUSHING (2104), CORD					
				•			

TC-K790ES

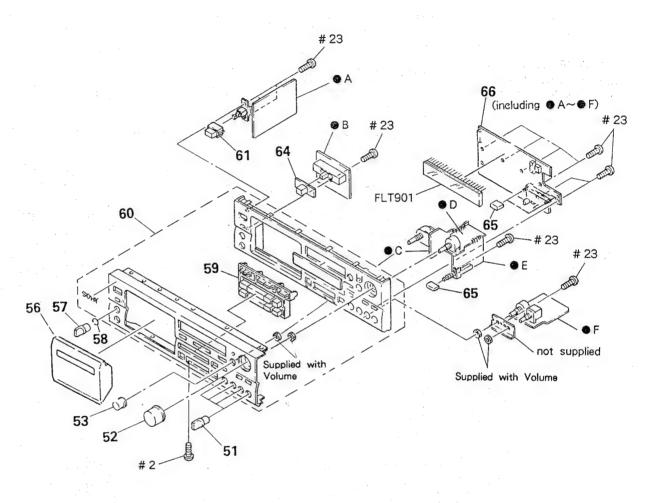
5-2. PANEL SECTION

● A: PANEL (H) ● B: PANEL (G)

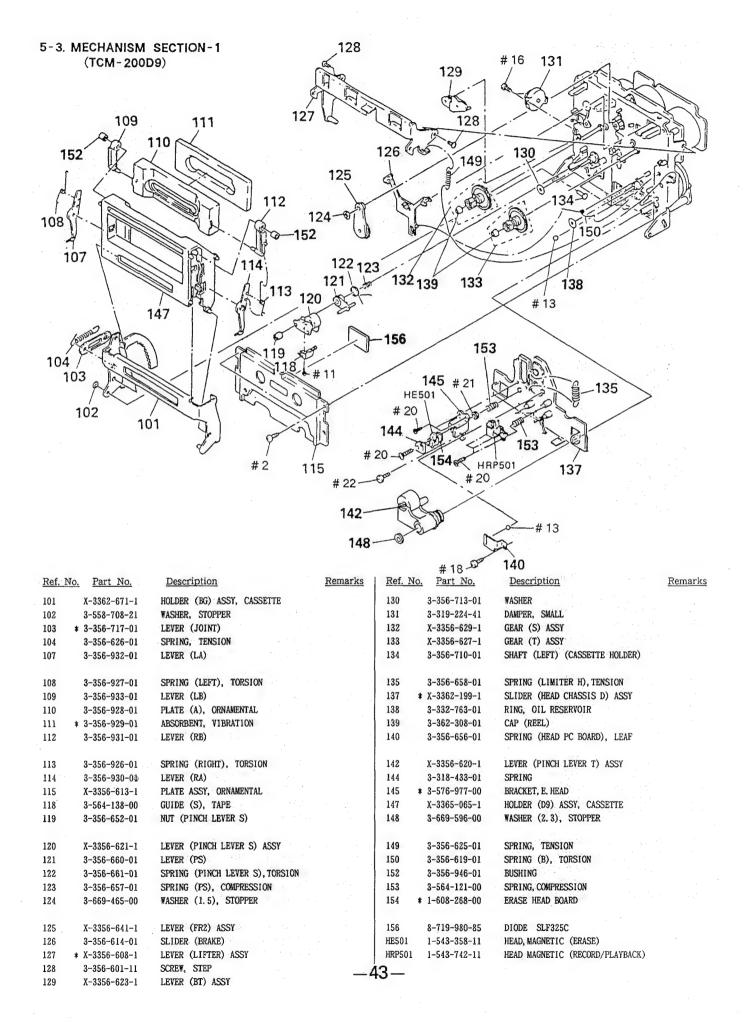
OC: PANEL (D)

● D: PANEL (C) ● E: PANEL (B)

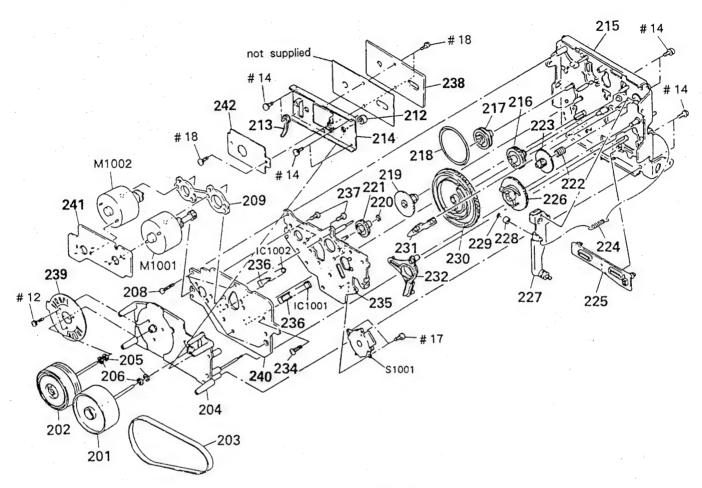
● E : PANEL (B) ● F : PANEL (E)



Ref. No. Part No.	Description	Remarks	Ref. No. Part No.	<u>Description</u>	Remarks
51 X-3362-818-1	KNOB (DIA. 12) ASSY (B), FLAT		60 A-2004-076-A	PANEL ASSY, FRONT	
52 X-3362-289-1	KNOB (VOL) ASSY		61 3-354-912-01	KNOB, POWER	
53 X-3365-387-1	KNOB (BAL)		64 4-922-518-01	KNOB (TIMER)	
56 X-3365-080-1	LID ASSY, CASSETTE		65 3-364-165-01	BUTTON (14X5)	
57 3-354-931-01	KNOB (DIA. 10)				4 5
•	Contract to the contract of th		66 * A-2006-781-A	PANEL BOARD, COMPLETE	
58 3-354-981-01	SPRING (SUS), RING		FLT901 1-519-560-21	INDICATOR TUBE, FLUORENCENT	
59 X-3362-290-1	BUTTON (BLOCK) ASSY				
·	the 147 127				



5-4. MECHANISM SECTION-2 (TCM-200D9)



Ref.	No. Part No.	<u>Description</u>	Remarks	Ref. No	o. Part No.	Description		Remarks
201	X-3362-284-1	FLYWHEEL (S2. 3) ASSY		224	3-376-854-01	SPRING, TENSION		
202	X-3356-619-1	FLYWHEEL (DT) ASSY		225	3-356-653-01	SLIDER (PAUSE)		
203	3-364-600-01	BELT (CAPSTAN)		226	3-356-616-01	GEAR (LOADING CAM)		
204	X-3362-281-1	CHASSIS (D2. 3) ASSY		227	* X-3356-606-1	LEVER (LOADING) ASSY		
205	3-356-705-31	WASHER (CAPSTAN)	, i	228	3-356-630-01	ROLLER (LOADING)		
206	3-356-705-21	WASHER (CAPSTAN)		229	3-558-708-11	WASHER, STOPPER		
208	3-355-801-01	SCREW (BTP 2X18)		230	3-356-654-01	GEAR (MODE CAM C)		* 1
209	* 3-356-628-01	SPACER (MOTOR)		231	3-356-617-01	LEVER (SELECTION)		
212	3-364-135-01	RETAINER (S), THRUST		232	3-356-613-01	LEVER (MODE)		*
213	3-703-150-11	STOPPER, WIRING		234	3-356-707-01	SCREW (+PTPWH 2X25)		
214	* X-3362-282-1	BRACKET (THRUST RETAINER) ASSY		235	* X-3356-616-1	BRACKET (MOTOR D) AS	SSY	
215	X-3356-622-1	CHASSIS (C) ASSY, MECHANICAL		236	3-356-631-01	HOLDOR (SENSOR)		
216	3-356-703-01	GEAR (COMMUNICATION C)		237	3-363-804-01	SCREW (+P 2.6X6.5)		
217	3-356-607-01	PULLEY (MODE)		238	A-2006-154-A	CAPSTAN C. O. C BOARD,	COMPLETE	
218	3-356-603-01	BELT (MODE)		239	1-632-779-11	PC BOARD, FG		
219	3-356-606-01	GEAR (MODE)		240	* 1-632-740-11	MD BOARD		
220	3-669-465-11	WASHER (1.5), STOPPER		241	* 1-632-741-11	REAL MOTOR BOARD	1.74	
221	3-356-702-01	GEAR (COMMUNICATION B)		242	* 1-632-746-11	COMPARATOR BOARD		A. 1
222	3-356-605-01	SPRING, COMPRESSION		S1001	1-466-238-11	ENCODER, ROTARY		
223	3-356-609-01	GEAR (LOADING)		M1002	X-3356-604-1	MOTOR (ASSIST) ASSY		
				M1001	X-3356-638-1	MOTOR (REEL R) ASSY		
			1	IC1001	8-749-920-97	DIODE GP2S22B		
		Section 1985		IC1002	8-749-920-97	DIODE GP2S22B		

SECTION 6 ELECTRICAL PARTS LIST

CAPSTAN C.O.C

COMPARATOR

NOTE:

The components identified by mark ⚠ or dotted line with mark
 ⚠ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- XX, X mean standardized parts, so they may have some difference from the original one.
- RESISTORS All resistors are in ohms. METAL: metal-film resistor METAL OXIDE: Metal Oxide-film resistor F: nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- **SEMICONDUCTORS** In each case, u: µ, for example: uA...: μA..., υPA..., μPA..., υPB..., μPB..., υPC..., μPC..., υPD..., μPD...
- **CAPACITORS:** υF: uF
- COILS

								υH: μH			
Ref. No.	Part No.	Description			Remarks	Ref. No	Part No.	Description			Remarks
	A-2006-154-A	CAPSTAN C. O. C	BOARD, COMPLE	ETE		C956	1-162-203-31	CERAMIC	15PF	5%	50V
		**********	-			C957	1-136-159-00	FILM	0. 033uF	5%	50V
	1-216-296-00	METAL CHIP	0	5%	1/8W			< CONNECTOR >			
		(CARACITOR)				CNOCI	A 1 FC4 710 11	DIM COMMECTOR	CHAIL TYDE) 9D	
		< CAPACITOR >					* 1-564-718-11 * 1-564-518-11	PIN, CONNECTOR PLUG, CONNECTOR) 4 <u>F</u>	
C905	1-124-779-00	ELECT CHIP	10uF	20%	16v						
C906	1-135-091-00	TANTALUM CHIP	luF	20%	16V			< IC >			
C907	1-163-077-00	CERAMIC CHIP	0. luF	10%	25V						
C908	1-163-077-00	CERAMIC CHIP	0. luF	10%	25V	IC951	8-759-945-58	IC RC4558P			
C909	1-163-077-00	CERAMIC CHIP	0. 1uF	10%	25V	IC952	8-759-201-58	IC TC9142P			
C910	1-163-205-00	CERAMIC CHIP	0. 001uF	5%	50V			< RESISTOR >			
C911	1-124-779-00	ELECT CHIP	10uF	20%	16v						
						R951	1-249-413-11	CARBON	470	5%	1/4W
		< DIODE >				R952	1-249-413-11	CARBON	470	5%	1/4W
						R953	1-247-881-00	CARBON	120K	5%	·1/4W
H901	8-719-403-79	DIODE	OH009			R954	1-247-881-00	CARBON	120K	5%	1/4W
H902	8-719-403-79	DIODE	ОН009			R955	1-249-429-11	CARBON	10K	5%	1/4W
н903	8-719-403-79	DIODE	ОН009								
						R956	1-249-417-11	CARBON	1K	5%	1/4W
		< IC >				R957	1-249-417-11	CARBON	1K	5%	1/4W
						R958	1-247-891-00	CARBON	330K	5%	1/4W
IC902	8-752-017-40	IC CX20174				R959	1-247-901-11	CARBON	820K	5%	1/4W
			*			R960	1-249-441-11	CARBON	100K	5%	1/4W
		< RESISTOR >						< VIBRATOR >			
R907	1-216-242-00	METAL GLAZE	68K	5%	1/8W				•		
R908	1-216-246-00	METAL GLAZE	100K	5%	1/8W	X951	1-577-615-11	VIBRATOR, CRYS	TAL		
R909	1-216-246-00	METAL GLAZE	100K	5%	1/8W		- 011 010 11	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	• • • • • • • • • • • • • • • • • • • •		
R910	1-216-238-00	METAL GLAZE	47K	5%	1/8W						
R911	1-216-182-00	METAL GLAZE	220	5%	1/8W	*******		******	******	*****	*
2010	1 010 100 00	METAL CLASS	220	5%	1/8W						
R912	1-216-182-00	METAL GLAZE	220	5%	1/8W	1 .	* 1-632-740-11	MD BOARD			
R913	1-216-150-00	METAL GLAZE	10	5%	1/8W	'	1-032-140-11	******			
R914 R915	1-216-150-00 1-216-150-00	METAL GLAZE METAL GLAZE	10 10	5%	1/8\ 1/8\			*******			
К915	1-210-130-00	METAL GLAZE	10	3/0	1/01		3-356-631-01	HOLDER (SENSOR))		
41.4		100	4		11.35	٠,			• .		14.1
******		******			!			< CONNECTOR >	J. J. J. J.		
	the state of the state of					. ¥*√	5 22 1			Section.	
*	1-632-746-11	COMPARATOR BOAL	RD		177	CN1001	1-506-615-11	PIN, CONNECTOR			
		**********	**			CN1002	1-564-501-11	PIN, CONNECTOR	8P		100
		#_				7.	137	1.2		7.1	
		< CAPACITOR >						< IC >			1
		894									1.00
C951	1-136-157-00	FILM		5%	50V	IC1001	8-749-920-97	DIODE	GP2S22B	1.20	
C952	1-124-282-00	ELECT		20%	25V	IC1002	8-749-920-97	DIODE	GP2S22B		
C953	1-124-478-11	ELECT	100uF	20%	25V	•					
C954 C955	1-124-477-11 1-162-203-31	ELECT CERAMIC	47uF 15PF	20% 5%	25V 50V — 4	5—					

MAD	MAIN
IVID	 MINIM

Ref. N	No. Part No.	Description			Remarks	Ref. No.	Part No.	Description	:		Remarks
Kei. r	10. 1 alt 110.					C126	1-123-382-00	ELECT	3. 3uF	20%	100V
		< RESISTOR >						ELECT	22uF	20%	50V
4						C171	1-126-049-11				50V
R1001	1-249-408-11	CARBON	180	5%	1/4W	C172	1-126-049-11	ELECT	22uF	20%	
R1002	1-249-408-11	CARBON	180	5%	1/4W	C173	1-126-049-11	ELECT	22uF 22uF	20% 20%	50V 50V
		< SWITCH >				C174	1-126-049-11	ELECT	2241	20/0	301
		SHIICE >				C201	1-110-340-11	MYLAR	270PF	5%	50V
01000	1 000 000 11	SWITCH, PUSH (1	KEA) (DOUB)			C203	1-136-157-00	FILM	0. 022uF	5%	50V
S1002	1-570-953-11	SWITCH, PUSH (1				C207	1-136-159-00	FILM	0. 033uF	5%	50V
S1003	1-571-958-11					C208	1-102-966-00	CERAMIC	43PF	5%	50V
S1004	1-572-126-11	SWITCH, PUSH (1							0. 0018uF	5%	50V
S1005	1-572-125-11	SWITCH, LEAF(FW				C209	1-130-474-00	MYLAR	0. 001our	3/0	301
S1006	1-572-202-11	SWITCH, LEAF (HA	LF)						0.0010.5	rev.	FAV
						C210	1-130-474-00	MYLAR	0. 0018uF	. 5%	50V
S1007	1-572-125-11	SWITCH, LEAF (ME	TAL)			C211	1-130-475-00	MYLAR	0. 0022uF	5%	50V
S1008	1-572-125-11	SWITCH, LEAF (70	(μ)			C212	1-130-475-00	MYLAR	0.0022uF	5%	50V
						C213	1-130-478-00	MYLAR	0. 0039uF	5%	50V
		< TERMINAL >				C214	1-136-173-00	FILM	0. 47uF	5%	50V
						2015	1 100 107 00	777.34	0.15.7	E#/	50V
TB100	1 * 1-694-018-11	TERMINAL (5P)				C215	1-136-167-00	FILM	0. 15uF	5% 5%	
						C216	1-136-155-00	FILM	0. 015uF	5%	50V
						C217	1-124-903-11	ELECT	luF	20%	50V
****	***********	************	*********	*****	*	C218	1-136-169-00	FILM	0. 22uF	5%	50V
						C219	1-136-163-00	FILM	0.068uF	5%	50V
	* A-2006-780-A	MAIN BOARD, COM					1 100 100 00	7277.14	0.000.0	5%	50V
		***********				C220	1-136-162-00	FILM	0. 056uF		50V
	· ·		(includi	n AA)		C221	1-124-903-11	ELECT	luF	20%	
						C222	1-130-480-00	MYLAR	0.0056uF	5%	50V
	* 1-533-213-31	HOLDER, FUSE	· ·			C223	1-136-153-00	FILM	0. 01uF	5%	50V
	* 1-560-242-91	BUS BAR 10P				C225	1-124-925-11	ELECT	2. 2uF	20%	100V
	7-682-147-15	SCREW, TR									
	4-902-345-01	HEAT SINK				C226	1-123-382-00	ELECT	3. 3uF	20%	100V
	* 3-309-144-21	HEAT SINK				C271	1-126-049-11	ELECT	22uF	20%	50V
	+ 0 000 111 01					C272	1-126-049-11	ELECT	22uF	20%	50V
	* 3-356-925-01	HEAT SINK				C273	1-126-049-11	ELECT	22uF	20%	50V
		PLATE, GROUND				C274	1-126-049-11	ELECT	22uF	20%	50V
	4-870-539-00	HEAT SINK				02,1	2 120 010 2-				
	* 4-880-403-11					C301	1-126-163-11	ELECT	4, 7uF	20%	50V
	7-682-548-09	SCREW +B 3X8	0110 (0)				1-126-163-11	ELECT	4. 7uF	20%	50V
	7-682-547-04	SCREW +BVTT	3X6 (S)	*		C302			4. 7uF	20%	50V
						C303	1-126-163-11	ELECT			50V
		< CAPACITOR >				C304	1-130-475-00	MYLAR	0. 0022uF	5%	
					2. 1. 1.	C305	1-130-475-00	MYLAR	0. 0022uF	5%	50V
C101	1-110-340-11	MYLAR	270PF	5%	50V				0 0000 B	r.w	COV
C103	1-136-157-00	FILM	0. 022uF	5%	50V	C306	1-130-478-00	MYLAR	0. 0039uF	5%	50V
C107	1-136-159-00	FILM	0. 033uF	5%	50V	C307	1-136-173-00	FILM	0. 47uF	5%	50V
C108	1-102-966-00	CERAMIC	43PF	5%	50V	C308	1-136-167-00	FILM	0. 15uF	5%	50V
C109	1-130-474-00	MYLAR	0.0018uF	5%	50V	C309	1-136-155-00	FILM	0. 015uF	5% .	50V
						C310	1-124-903-11	ELECT	luF	20%	50V
C110	1-130-474-00	MYLAR	0.0018uF	5%	50V						,
C111		MYLAR	0. 0022uF	5%	50V	C311	1-136-169-00	FILM	0. 22uF	5%	50V
C112		MYLAR	0.0022uF	5%	50V	C312	1-136-162-00	FILM	0.056uF	5%	50V
C113		MYLAR	0. 0039uF	5%	50V	C313	1-124-903-11	ELECT	1uF	20%	50V
C114		FILM	0. 47uF	5%	50V	C314	1-136-163-00	FILM	0.068uF	5%	50V
CIII	1 100 110 00		0			C315	1-130-480-00	MYLAR	0.0056uF	5%	50V
C115	1-136-167-00	FILM	0. 15uF	5%	50V						. 14.7
C116		FILM	0. 015uF	5%	50V	C316	1-136-153-00	FILM	0. 01uF	5%	50V
C117		ELECT	luF	20%	50V	C317	1-126-059-11	ELECT	10uF	20%	50V
		FILM	0. 22uF	5%	50V	C318	1-126-059-11	ELECT	10uF	20%	50V * ***
C118		11500	0. 068uF	5%	50V	C319	1-130-474-00	MYLAR	0. 0018uF	5%	50V
C119	1-136-163-00	FILM	o. ocour	376	301	C320	1-126-059-11	ELECT			50V
C120	1-136-162-00	FILM	0. 056uF	5%	50V		2 000	11 1711411			
C121		ELECT	luF	20%	50V	C321	1-136-161-00	FILM	0. 047uF	5%	50V
			0. 0056uF	5%	50V	C322	1-126-049-11		22uF	20%	50V
C122		MYLAR	0. 0036ur 0. 01uF	5%	50V	C323	1-110-338-51	MYLAR	180PF	5%	50V
C123		FILM	1.5		50V	C324	1-136-935-11	FILM	22PF	5%	630V
											VVV !
C125	1-136-165-00	FILM	V. 1 U.	5%		C325	1-136-155-00		0. 015uF		50V

D. C. Ma	David Ma	Decem	imtian			Dam	a wlan	l Def M	n Daws Ma	Description			Davis	
Ref. No		-	iption			Rem	arks	Ref. No		Description				narks
C326	1-136-155-00	FILM		0. 015uF	5%	50 V		C554	1-130-474-00	MYLAR	0. 0018u		50V	
C327	1-136-156-00	FILM	,	0. 018uF	5%	50V		C555	1-124-925-11	ELECT	2. 2uF	20%	100V	
C328	1-136-155-00	FILM		0. 015uF	5%	50V		C556	1-136-228-11	FILM	0. 0012u		100V	
C329	1-136-156-00	FILM		0. 018uF	5%	50V		C557	1-136-233-11	FILM	0. 0047u		100V	
C330	1-136-433-11	FILM		100PF	5%	630V		C558	1-136-228-11	FILM	0. 0012u	F 5%	100V	
C331	1-136-803-11	FILM		560PF	5%	630V		C559	1-124-907-11	ELECT	10uF	20%	50V	
C332	1-130-468-00	MYLAR		560PF	5%	50V		C560	1-124-925-11	ELECT	2. 2uF	20%	1007	
C333	1-136-153-00	FILM		0. 01uF	5%	50V		C561	1-136-559-11	FILM	0. 0047ul		630V	
C334	1-136-157-00	FILM		0. 022uF	5%	50V		C562	1-124-907-11	ELECT	10uF	20%	50V	
C335	1-136-165-00	FILM		0. 1uF	5%	50V		C563	1-107-045-00	MICA	3. 9PF		500V	
0000	12 100 100 00													
C401	1-126-163-11	ELECT		4. 7uF	20%	50V		C564	1-126-059-11	ELECT	10uF	20%	50V	
C402	1-126-163-11	ELECT		4. 7uF	20%	50V		C565	1-124-477-11	ELECT	47uF	20%	25V	
C403	1-126-163-11	ELECT		4. 7uF	20%	50V		C591	1-162-282-31	CERAMIC	100PF	10%	50V	
C404	1-130-475-00	MYLAR		0.0022uF	5%	50V		C598	1-161-494-00	CERAMIC	0. 022uF		25V	
C405	1-130-475-00	MYLAR		0.0022uF	5%	50V		C601	1-124-636-00	ELECT	3300uF	20%	25V	
C406	1-130-478-00	MYLAR		0.0039uF	5%	50V		C602	1-124-636-00	ELECT	3300uF	20%	25V	
C407	1-136-173-00	FILM		0. 47uF	5%	50V		C603	1-124-922-11	ELECT	1000uF	20%	63V	
C408	1-136-167-00	FILM		0. 15uF	5%	50V		C604	1-124-922-11	ELECT	1000uF	20%	63V	
C409	1-136-155-00	FILM		0.015uF	5%	50V		C607	1-124-130-00	ELECT	100uF	20%	63V	
C410	1-124-903-11	ELECT		luF	20%	50V		C701	1-124-887-00	ELECT	3300uF	20%	16V	
CALL	1-136-169-00	FILM		0, 22uF	5%	50V		C702	1-124-471-00	ELECT	1000uF	20%	6. 3V	
C411 C412	1-136-162-00	FILM		0. 056uF	5%	50V		C702	1-124-471-00	ELECT	4. 7uF	20%	100V	
C412	1-124-903-11	ELECT		luF	20%	50V		C704	1-126-105-11	ELECT	1000uF	20%	35V	
C414	1-136-163-00	FILM		0. 068uF	5%	50V		C705	1-124-473-11	ELECT	1000uF	20%	10V	
C414	1-130-103-00	MYLAR		0. 0056uF	5%	50V		C706	1-124-927-11	ELECT	4. 7uF	20%	1007	
C413	1 130 460 00	milm		0.00504	3,0	301		C100	1 124 327 11	IMIXI	3. Ita	20%	1001	
C416	1-136-153-00	FILM		0. 01uF	5%	50V		C707	1-124-927-11	ELECT	4. 7uF	20%	100V	
C417	1-126-059-11	ELECT		10uF	20%	50V		C708	1-126-955-11	ELECT	4700uF	20%	35V	
C418	1-126-059-11	ELECT		10uF	20%	50V		C709	1-124-556-11	ELECT	2200uF	20%	16V	
C419	1-130-474-00	MYLAR		0.0018uF	5%	50V		C710	1-124-927-11	ELECT	4. 7uF	20%	100V	
C420	1-126-059-11	ELECT		10uF	20%	50V		C711	1-124-122-11	ELECT	100uF	20%	50V	
C421	1-136-161-00	FILM		0. 047uF	5%	50V		C712	1-124-477-11	ELECT	47uF	20%	25V	
C422	1-126-049-11	ELECT		22uF	20%	50V		C713	1-164-159-11	CERAMIC	0. 1uF		50V	
C423	1-110-338-51	MYLAR		180PF	5%	50V		C714	1-124-927-11	ELECT	4. 7uF	20%	100V	
C424	1-136-935-11	FILM		22PF	5%	630V		C801	1-124-443-00	ELECT	100uF	20%	10V	
C425	1-136-155-00	FILM		0. 015uF	5%	50V		C802	1-124-472-11	ELECT	470uF	20%	107	
C426	1-136-155-00	FILM		0. 015uF	5%	50V		C803	1-124-477-11	ELECT	47uF	20%	25V	
C427	1-136-156-00	FILM		0. 018uF	5%	50V		C804	1-124-927-11	ELECT	4. 7uF	20%	100V	
C428	1-136-155-00	FILM		0. 015uF	5%	50V		C805	1-124-907-11	ELECT	10uF	20%	50V	
C429	1-136-156-00	FILM		0. 018uF	5%	50V		C806	1-164-159-11	CERAMIC	0. 1uF	2070	50V	
C430	1-136-433-11	FILM		100PF	5%	630V		C807	1-164-159-11	CERAMIC	0. 1uF		50V	
U-100	1 100 100 11	1 1 1 1 1		2000	2,0	2001		3001	100 11				501	
C431	1-136-803-11	FILM		560PF	5%	630V				< CONNECTOR >				
C432	1-130-468-00	MYLAR		560PF	5%	50V								
C433	1-136-153-00	FILM		0. 01uF	5%	50V		CN501	* 1-560-062-00	PIN, CONNECTOR	4P			
C434	1-136-157-00	FILM		0. 022uF	5%	50V		CN502	* 1-564-666-11	PIN, CONNECTOR	10P			
C435	1-136-165-00	FILM		0. luF	5%	50V		CN503	* 1-560-063-00	PIN, CONNECTOR	5P			er er
								CN551	* 1-564-510-11	PLUG, CONNECTOR				
C501	1-130-475-00	MYLAR	10 74 5	0. 0022uF	5%	50V		CN553	* 1-564-507-11	PLUG, CONNECTOR	R 4P			4 - 5 - 5
C502	1-136-165-00	FILM	ATTY BED	0. luF	5%	50V	7.52			Harty Const.		the Marketon		variation.
C503	1-124-902-00	ELECT	- Alliness	0. 47uF	20%	50V	* * ****	CN555	* 1-564-509-11	PLUG, CONNECTOR	R 6P	¥ 11. 5		adit.
C505	1-124-907-11	ELECT	A NOTE OF	10uF	20%	507		CN556	* 1-560-062-00	PIN, CONNECTOR	4P			
C506	1-124-925-11	ELECT	#1777 N	2. 2uF	20%	1007	St. Common	CN557	* 1-560-061-00	PIN, CONNECTOR	3P			
								CN701	* 1-564-514-11	PLUG, CONNECTOR	R 11P			
C507	1-124-925-11	ELECT	有人的代表。 1	2. 2uF	20%	1007		CN801	* 1-564-666-11	PIN, CONNECTOR		+ 1,4 (m		. 192
C508	1-124-477-11	ELECT	F95 134	47uF	20%							9-01000		Mile i
C551	1-136-157-00	FILM	469.05921	0. 022uF	5%			CN802	* 1-564-342-11	PIN, CONNECTOR				447
C552	1-136-157-00	FILM	# 155c	0. 022uF	5%	001		CN803	* 1-564-336-00	PIN, CONNECTOR		War to		1913
C553	1-130-474-00	MYLAR	3017174	0. 0018uF	5%	50V	\$ 1.5			58.4 4 4 44 -		i sumitivi	197	. 7.7

Ref. No.	Part No.	Description	Remarks	Ref. No. Part No.	Description	Remarks
Iter. Ivo.	1 411 110.		<u> </u>			Acmarks.
		< COMPOSITION >		IC506 8-759-634-50	IC M5218AL	* * * * * * * * * * * * * * * * * * * *
				IC507 8-759-634-50	IC M5218AL	
CP801	1-236-984-11	COMPOSITION CIRCUIT I	BLOCK	IC551 8-759-945-58	IC RC4558P	
				IC552 8-752-018-80	IC CX20188	
		< DIODE >		IC553 8-759-710-59	IC NJM4580D-D	
D101	0.710 007-69	DIODE 1N4148M		IC554 8-759-106-56	IC uPC1297CA	
D101	8-719-987-63					
D102	8-719-000-54	DIODE UZL-6L3	·	IC555 8-759-634-50	IC M5218AL	
D103	8-719-987-63	DIODE 1N4148M	**	IC801 8-759-635-69	IC M50964-226SP	
D104	8-719-987-63	DIODE 1N4148M		IC802 8-759-973-95	IC BA6219B	
D201	8-719-987-63	DIODE IN4148M		IC803 8-759-822-09	IC LB1641	
D202	8-719-000-54	DIODE UZL-6L3			< JACK >	
D202	8-719-987-63	DIODE 1N4148M			Conon /	
		DIODE 1N4148M		J501 1-565-320-61	JACK, PIN 6P (CD/LINE)	١
D204	8-719-987-63			3301 1-303-320-01	JACK, FIN OI (CD/DIND)	,
D501	8-719-987-63	DIODE IN4148M			/ COII >	•
D502	8-719-987-63	DIODE 1N4148M			< COIL >	•
D503	8-719-987-63	DIODE 1N4148M		L101 1-410-778-11	INDUCTOR 18mH	
D503 D504	8-719-987-63	DIODE IN4148M		L201 1-410-778-11	INDUCTOR 18mH	
D505	8-719-987-63	DIODE 1N4148M		L301 1-410-771-11	INDUCTOR 4. 7mH	
D506	8-719-987-63	DIODE 1N4148M		L302 1-410-769-31	INDUCTOR 3. 3mH	
D507	8-719-987-63	DIODE 1N4148M		L303 1-410-767-11	INDUCTOR 2. 2mH	
DEOO	0.710 007-69	DIODE 1N4148M		L304 1-410-780-11	INDUCTOR 27mH	
D509	8-719-987-63					
D551	8-719-987-63	DIODE 1N4148M				
D552	8-719-987-63	DIODE 1N4148M	·	L402 1-410-769-31	INDUCTOR 3. 3mH	
D553	8-719-987-63	DIODE 1N4148M		L403 1-410-767-11	INDUCTOR 2. 2mH	
D554	8-719-987-63	DIODE 1N4148M		L404 1-410-780-11	INDUCTOR 27mH	
D555	8-719-987-63	DIODE 1N4148M	*		< FILTER >	
D556	8-719-987-63	DIODE 1N4148M			· · · · · · · · · · · · · · · · · · ·	
D601	8-719-230-02	DIODE 30DF2	•	LPF301 1-236-087-11	FILTER, LOW PASS	
D602	8-719-230-02	DIODE 30DF2	·	LPF401 1-236-087-11	FILTER, LOW PASS	
D602	8-719-230-02	DIODE 30DF2		M1401 1-230 001 11	FILIDA, LOW TROOT	
D003	8-113-230-02	DIODE SODIE	•		< PILOT LAMP >	
D604	8-719-230-02	DIODE 30DF2				
D605	8-719-933-41	DIODE HZS6C3L		PL551 1-518-471-31	LAMP, PILOT	
D701	8-719-200-77	DIODE 10E2N		PL552 1-518-471-31	LAMP, PILOT	
D702	8-719-200-77	DIODE 10E2N				
D703	8-719-200-77	DIODE 10E2N			< TRANSISTOR >	Angelia Baran
						•
D704	8-719-200-77	DIODE 10E2N		Q106 8-729-922-37	TRANSISTOR 2SD2144S	Land Control
D705	8-719-200-77	DIODE 10E2N		Q107 8-729-922-37	TRANSISTOR 2SD2144S	
D706	8-719-200-77	DIODE 10E2N		Q108 8-729-922-37	TRANSISTOR 2SD2144S	· .
D707	8-719-200-77	DIODE 10E2N		Q206 8-729-922-37	TRANSISTOR 2SD2144S	
D708	8-719-933-41	DIODE HZS6C3L		Q207 8-729-922-37	TRANSISTOR 2SD2144S	
D712	8-719-933-41	DIODE HZS6C3L		Q208 8-729-922-37	TRANSISTOR 2SD2144S	
D713	8-719-001-79	DIODE UZL-12HI		Q301 8-729-922-37	TRANSISTOR 2SD2144S	
D714	8-719-015-02	DIODE UZP-8. 2BB		Q302 8-729-922-37	TRANSISTOR 2SD2144S	
D715	8-719-200-77	DIODE 10E2N	And the second	Q303 8-729-922-37	TRANSISTOR 2SD2144S	
D716	8-719-987-63	DIODE 1N4148M	A CAMPAGE A	Q304 8-729-922-37	TRANSISTOR 2SD2144S	
			1. O			
D801	8-719-200-77	DIODE 10E2N	See All Superior Land	Q305 8-729-922-37	TRANSISTOR 2SD2144S	Carrier Anna Commence
D802	8-719-987-63	DIODE 1N4148M	;	Q401 8-729-922-37	TRANSISTOR 2SD2144S	
D803	8-719-987-63	DIODE 1N4148M	detectable a color	Q402 8-729-922-37	TRANSISTOR 2SD2144S	
		\$2.50 (EVEN FOR 1817)	SON SON CONTRACTOR SERVICES	Q403 8-729-922-37	TRANSISTOR 2SD2144S	
		⟨ IC₁⟩; ⟨⟨⟩⟩ ⟨	paraworawa in green a	Q404 8-729-922-37	TRANSISTOR 2SD2144S	
٠		the wall the way of the	iis (Le war I 🔻 111 D. 1			
IC501	8-759-602-01	IC M5220P	. States (P. 1927)	Q405 8-729-922-37	TRANSISTOR 2SD2144S	
IC502	8-752-018-80	IC CX20188		Q501 8-729-922-37	TRANSISTOR 2SD2144S	
IC503	8-759-000-49	IC MC14066BCP	and the second of the second	Q502 8-729-922-37	TRANSISTOR 2SD2144S	
IC504	8-759-945-58	IC RC4558P	and standing a warming	Q503 8-729-900-89	TRANSISTOR DTC144ES	60/401-303-1
IC505	8-759-634-50	IC M5218AL		Q504 8-729-900-80	TRANSISTOR DTC114ES	PARTICIPAL 1 CHED

Ref. N	No. Part No.	Descriptio	<u>n</u> -	Ren	<u>narks</u>	Ref. No	Part No.	Descrip	tion_		Remarks
Q505	8-729-900-89	TRANSISTOR	DTC144ES			R119	1-247-719-11	CARBON	3. 3K	5%	1/4W
Q551	8-729-194-57	TRANSISTOR	2SC945-P	• •		R120	1-246-545-00	CARBON	1. OM	5%	1/4W
Q552	8-729-194-57	TRANSISTOR	2SC945-P			R121	1-247-710-11	CARBON	560	5%	1/4W
	•	TRANSISTOR	2SC1815-Y			R122	1-249-462-11	CARBON	22K	5%	1/4W
Q553	8-729-281-52					1					
Q554	8-729-900-80	TRANSISTOR	DTC114ES	7		R123	1-247-852-11	CARBON	7. 5K	5%	1/4W
Q555	8-729-900-61	TRANSISTOR	DTA114ES	•		R124	1-249-415-11	CARBON	680	5%	1/4W
Q556	8-729-900-80	TRANSISTOR	DTC114ES			R125	1-247-854-11	CARBON	9. 1K	5%	1/4W
Q557	8-729-900-80	TRANSISTOR	DTC114ES			R126	1-249-465-11	CARBON	47K	5%	1/4W
Q558	8-729-900-80	TRANSISTOR	DTC114ES			R127	1-249-465-11	CARBON	47K	5%	1/4W
Q559	8-729-900-89	TRANSISTOR	DTC144ES	*		R128	1-249-681-11	CARBON	2. 2K	5%	1/2W
พูออฮ	6-129-300-03	MICIONAL	DICITIES			KIZO	1 240 001 11	CHILDON	D. Dit	070	1/211
Q560	8-729-900-89	TRANSISTOR	DTC144ES			R129	1-249-673-11	CARBON	1K	5%	1/2W
Q601	8-729-141-89	TRANSISTOR	2SD1585-LK			R130	1-249-461-11	CARBON	18K	5%	1/4W
Q602	8-729-141-83	TRANSISTOR	2SB1094-LK			R131	1-249-421-11	CARBON	2, 2K	5%	1/4W
Q602	8-729-922-37	TRANSISTOR	2SD2144S			R132	1-249-429-11	CARBON	10K	5%	1/4W
						R133		CARBON	22K	5%	1/4\\
Q604	8-729-224-62	TRANSISTOR	2SK246-GR			K155	1-249-433-11	CARDON	228	3/0	1/4#
Q605	8-729-141-32	TRANSISTOR	2SA1409-LK			R134	1-249-417-11	CARBON	1K	5%	1/4W
Q606	8-729-224-62	TRANSISTOR	2SK246-GR			R135	1-249-437-11	CARBON	47K	5%	1/4W
Q607	8-729-620-05	TRANSISTOR	2SC2603-EF			R136	1-249-427-11	CARBON	6. 8K	5%	1/4W
Q611	8-729-119-76	TRANSISTOR	2SA1175-HFE			R137	1-249-427-11	CARBON	6. 8K	5%	1/4W
Q701	8-729-209-15	TRANSISTOR	2SD2012			R138	1-215-465-00	METAL	68K	1%	1/6W
6101	0-123-203 13	IKANSISION	2502012			KIGG	1 210 400 00	BELLE	OOL	170	1/011
Q702	8-729-209-15	TRANSISTOR	2SD2012			R139	1-215-448-00	METAL	13K	1%	1/6W
Q703	8-729-209-15	TRANSISTOR	2SD2012			R140	1-215-471-00	METAL	120K	1%	1/6W
Q704	8-729-620-05	TRANSISTOR	2SC2603-EF			R141	1-249-408-11	CARBON	180	5%	1/4W
Q706	8-729-922-37	TRANSISTOR	2SD2144S			R142	1-247-883-00	CARBON	150K	5%	1/4W
Q707	8-729-620-05	TRANSISTOR	2SC2603-EF			R143	1-249-429-11	CARBON	10K	5%	1/4W
Q101	. 6-125-020-03	TIMISTSTOR	ZSCZ003 EI			MI40	1 240 425 11	CALLON	ion	. 070	. 1/ 1/
Q708	8-729-922-37	TRANSISTOR	2SD2144S			R201	1-249-721-11	CARBON	100K	5%	1/2W
Q709	8-729-140-04	TRANSISTOR	2SB1116A-L			R202	1-247-740-11	CARBON	120	5%	1/2W
Q710	8-729-141-32	TRANSISTOR	2SA1409-LK			R204	1-249-724-91	CARBON	130K	5%	1/2W
Q801	8-729-900-65	TRANSISTOR	DTA144ES			R205	1-247-761-11	CARBON	5. 6K	5%	1/2W
Q802	8-729-900-65	TRANSISTOR	DTA144ES			R213	1-247-717-11	CARBON	2, 2K	5%	1/4W
Q00Z	6-129-300.03	TICKNOTOTOK	DIRITIO			NZ10	1 247 717 11	Chinon	2. 511		1/ 11
Q803	8-729-900-65	TRANSISTOR	DTA144ES			R214	1-247-138-00	CARBON	2K	5%	1/4W
Q804	8-729-900-65	TRANSISTOR	DTA144ES			R215	1-247-720-11	CARBON	3. 9K	.5%	1/4W
Q805	8-729-119-76	TRANSISTOR	2SA1175-HFE			R216	1-247-710-11	CARBON	560	5%	1/4₩
Q806	8-729-900-65	TRANSISTOR	DTA144ES			R217	1-247-725-11	CARBON	10K	5%	1/4W
Q807	8-729-900-65	TRANSISTOR	DTA144ES			R218	1-247-719-11	CARBON	3. 3K	5%	1/4W
Q808	8-729-119-76	TRANSISTOR	2SA1175-HFE			R219	1-247-719-11	CARBON	3. 3K	5%	1/4W
Q809	8-729-900-65	TRANSISTOR	DTA144ES			R220	1-246-545-00	CARBON	1. OM	- 5%	I/4W
Q810	8-729-119-76	TRANSISTOR	2SA1175-HFE			R221	1-247-710-11	CARBON	560	-5%	1/4W
Q811	8-729-119-76	TRANSISTOR	2SA1175-HFE			R222	1-249-462-11	CARBON	22K	5%	1/4W
Q812	8-729-900-61	TRANSISTOR	DTA114ES	-		R223	1-247-852-11	CARBON	7. 5K	5%	1/4W
(
Q813	8-729-620-05	TRANSISTOR	2SC2603-EF			R224	1-249-415-11	CARBON	680	5%	1/4W
Q814	8-729-620-05	TRANSISTOR	2SC2603-EF			R225	1-247-854-11	CARBON	9. 1K	5%	1/4W
						R226	1-249-465-11	CARBON	47K	5%	1/4W
		< RESISTOR	>			R227	1-249-465-11	CARBON	47K	5%	1/4W
						R228	1-249-681-11	CARBON	2. 2K	5%	1/2W
R101	1-249-721-11	CARBON	100K 5								
R102	1-247-740-11	CARBON	1201 5	% 1/2W		R229	1-249-673-11	CARBON	1K	5%	1/2W
R104	1-249-724-91	CARBON	130K 5	% 1/2W		R230	1-249-461-11	CARBON	18K	5%	1/4₩
R105	1-247-761-11	CARBON	5. 6K 5		Safe A	R231	1-249-421-11	CARBON	2. 2K	5%	1/4W
R113	1-247-717-11	CARBON	2. 2K 5		A, je	R232	1-249-429-11	CARBON	10K	5%	1/4W
	3, 1 3 3	and the second s	1471 166		3.3	R233	1-249-433-11	CARBON	22K	5%	1/4W
R114	1-247-138-00	CARBON	2K 5								
R115	1-247-720-11	CARBON	The second secon	% 1/4₩	. 1 *	R234	1-249-417-11	CARBON	1K	5%	1/4W
. R116	1-247-710-11	CARBON	560 5		2 - 14 · .	R235	1-249-437-11	CARBON	47K	5%	1/4W
R117	1-247-725-11	CARBON		% 1/4W	1.15	R236	1-249-427-11	CARBON	6. 8K	5%	1/4W
R118	1-247-719-11	CARBON	3. 3K 5	% 1/4W		R237	1-215-441-00	METAL	6. 8K	1%	1/6W
	3	34	Adulti Energy			R237	1-249-427-11	CARBON	6. 8K	5%	1/4W

TC-K790ES

MAIN

Ref. 1	No. Part No.	Description			Remarks	Ref. 1	No. Part No.	Description	<u>on</u>		Remarks
R238	1-215-465-00	METAL	68K	1%	1/6W	R405	1-247-720-11	CARBON	3. 9K	5%	1/4W
R239	1-215-448-00	METAL	13K	1%	1/6₩	R406	1-247-719-11	CARBON	3. 3K	5%	1/4W
R240		METAL	120K	1%	1/6W	R407	1-247-152-00	CARBON	7. 5K	5%	
	1-215-471-00					1					1/4W
R241	1-249-408-11	CARBON	180	5%	1/4W	R408	1-249-465-11	CARBON	47K	5%	1/4W
R242	1-247-883-00	CARBON	150K	5%	1/4W	R409	1-249-465-11	CARBON	47K	5%	1/4W
R243	1-249-429-11	CARBON	10K	5%	1/4₩	R410	1-247-128-00	CARBON	750	5%	1/4W
R301	1-249-703-11	CARBON	18K	5%	1/2W	R411	1-247-725-11	CARBON	10K	5%	1/4W
R302	1-249-490-11	CARBON	27K	5%	1/2W	R412	1-247-719-11	CARBON	3. 3K	5%	1/4W
R303	1-249-469-11	CARBON	100K	5%	1/4₩	R413	1-247-719-11	CARBON	3. 3K	5%	1/4W
R304	1-247-723-11	CARBON	6. 8K	5%	1/4W	R414	1-246-545-00	CARBON	1. OM	5%	1/4W
R305	1-247-720-11	CARBON	3. 9K	5%	1/4₩	R415	1-247-710-11	CARBON	560	5%	1/4₩
R306	1-247-719-11	CARBON	3. 3K	5%	1/4W	R416	1-249-462-11	CARBON	22K	5%	1/4₩
R307	1-247-152-00	CARBON	7. 5K	5%	1/4W	R417	1-247-854-11	CARBON	9. 1K	5%	1/4₩
R308	1-249-465-11	CARBON	47K	5%	1/4W	R418	1-247-852-11	CARBON	7. 5K	5%	1/4W
R309	1-249-465-11	CARBON	47K	5%	1/4W	R419	1-249-415-11	CARBON	680	5%	1/4W
R310	1-247-128-00	CARBON	750	5%	1/4W	R420	1-249-462-11	CARBON	22K	5%	1/4₩
R311	1-247-725-11	CARBON	10K	5%	1/4W	R421	1-247-719-11	CARBON	3. 3K	5%	1/4W
R312	1-247-719-11	CARBON	3. 3K	5%	1/4W	R422	1-247-723-11	CARBON	6. 8K	5%	1/4W
R313		CARBON	3. 3K		•	R423	1-249-462-11	CARBON	22K		
	1-247-719-11			5%	1/4W	1				5%	1/4W
R314	1-246-545-00	CARBON	1. OM	5%	1/4₩	R424	1-249-465-11	CARBON	47K	5%	1/4W
R315	1-247-710-11	CARBON	560	5%	1/4W	R425	1-247-717-11	CARBON	2. 2K	5%	1/4W
R316	1-249-462-11	CARBON	22K	5%	1/4W	R426	1-249-469-11	CARBON	100K	5%	1/4W
R317						R427					
	1-247-854-11	CARBON	9. 1K	5%	1/47		1-249-593-11	CARBON	51K	5%	1/4W
R318	1-247-852-11	CARBON	7. 5K	5%	1/4W	R428	1-247-721-11	CARBON	4. 7K	5%	1/4W
R319	1-249-415-11	CARBON	680	5%	1/4W	R429	1-247-703-11	CARBON	180	5%	1/4W
R320	1-249-462-11	CARBON	22K	5%	1/4W	R430	1-247-725-11	CARBON	10K	5%	1/4W
R321	1-247-719-11	CARBON	3. 3K	5%	1/4W	R431	1-247-148-00	CARBON	5. 1K	5%	1/4W
R322		CARBON	6. 8K	5%		R432		CARBON			
	1-247-723-11				1/4W		1-247-701-11		120	5%	1/4W
R323	1-249-462-11	CARBON	22K	5%	1/4W	R433	1-247-152-00	CARBON	8. 2K	5%	1/4W
R324	1-249-465-11	CARBON	47K	5%	1/4W	R434	1-247-720-11	CARBON	3. 9K	5%	1/4W
R325	1-247-717-11	CARBON	2. 2K	5%	1/4W	R435	1-247-701-11	CARBON	120	5%	1/4W
R326	1-249-469-11	CARBON	100K	5%	1/4W	R436	1-249-429-11	CARBON	10K	5%	1/4W
R327		CARBON	51K	5%	1/4W	R437	1-249-429-11	CARBON			
	1-249-593-11					1			10K	5%	1/4W
R328	1-247-721-11	CARBON	4. 7K	5%	1/4W	R438	1-249-429-11	CARBON	10K	5%	1/4W
R329	1-247-703-11	CARBON	180	5%	1/4W	R439	1-249-429-11	CARBON	10K	5%	1/4W
R330	1-247-725-11	CARBON	10K	5%	1/4W	R440	1-249-421-11	CARBON	2. 2K	5%	1/4W
R331	1-247-148-00	CARBON	5. 1K	5%	1/4W	R441	1-249-604-11	CARBON	150K	5%	1/4W
R332	1-247-701-11	CARBON	120	5%	1/4W	R442	△1-212-857-00	FUSIBLE	10	5%	1/4W F
R333											
	1-247-152-00	CARBON	8. 2K	5%	1/4W	R443	1-249-435-11	CARBON	33K	5%	1/4W
R334	1-247-720-11	CARBON	3. 9K	5%	1/4W	R444	1-249-426-11	CARBON	5. 6K	5%	1/4W
R334	1-247-721-11	CARBON	4. 7K	5%	1/4W	R501	1-249-433-11	CARBON	22K	5%	1/4W
R335	1-247-701-11	CARBON	120	5%	1/4W	R502	1-249-433-11	CARBON	22K	5%	1/4W
R336	1-249-429-11	CARBON	10K	5%	1/4W	R503	1-249-469-11	CARBON	100K	5%	1/4W
R337	1-249-429-11	CARBON	10K	5%	1/4W	R504	1-249-465-11	CARBON	47K	5%	1/4W
R338	1-249-429-11	CARBON	10K	5%	1/4W	R505	1-215-472-00	METAL	130K	1%	1/6W
R339	1-249-429-11	CARBON	10K	5 %	1/4₩	R506	1-249-437-11	CARBON	47K	5%	1/4W
R340	1-249-421-11	CARBON	2. 2K	5%	1/4W	R507	1-249-433-11	CARBON	22K	5%	1/4W
R341		CARBON	2. 2K 150K	5%		1					
	1-249-604-11				1/4W	R508	1-249-417-11	CARBON	1K	5%	1/4W
R342	△1-212-857-00	FUSIBLE	10	5%	1/4W F	R509	1-247-885-00	CARBON	180K	5%	1/4W
R343	1-249-435-11	CARBON	33K	5%	1/4W	R510	1-249-433-11	CARBON	22K	5%	1/4W
R344	1-249-426-11	CARBON	5. 6K	5%	1/4W	R511	1-249-413-11	CARBON	470	5%	1/4W
R401	1-249-703-11	CARBON	18K	5%	1/2W	R512	1-249-413-11	CARBON	470	5%	1/4W
R402	1-249-490-11	CARBON	27K	5%	1/2W	R513	1-249-433-11	CARBON	18K	5%	1/4W
R403											
	1-249-469-11	CARBON	100K	5%	1/4W	R514	1-249-433-11	CARBON	22K	5%	1/4W
R404	1-247-723-11	CARBON	6. 8K	5%	1/4W	R515	1-249-437-11	CARBON	47K	5%	1/4W

Note: The components identified by mark \bigwedge or dotted line with mark \bigwedge are critical for safety. Replace only with part number specified.

Ref. N	lo. Part No.	Description			Remarks	Ref. No.	Part No.	Description			Remarks
R516	1-249-437-11	CARBON	47K	5%	1/4W	R712	1-249-429-11	CARBON	10K	5%	1/4W
R517	1-249-437-11	CARBON	47K	5%	1/4W	R713	1-249-441-11	CARBON	100K	5%	1/4W
R518	1-249-429-11	CARBON	10K	5%	1/4W	R714	1-249-425-11	CARBON	4. 7K	5%	1/4W
R519	1-249-429-11	CARBON	10K	5%	1/4W	R715	1-247-752-11	CARBON	1K	5%	1/2W
R520	1-249-437-11	CARBON	47K	5%	1/4W	R801	1-249-429-11	CARBON	10K	5%	1/4W
RDDO	1 5.0 101 11	CILL OIL	••••	•	-,						
R521	1-249-429-11	CARBON	10K	5%	1/4W	R802	1-249-429-11	CARBON	10K	5%	1/4W
R522	1-249-437-11	CARBON	47K	5%	1/4W	R803	1-249-440-11	CARBON	82K	5%	1/4W
R523	1-249-421-11	CARBON	2. 2K	5%	1/4W	R804	1-249-429-11	CARBON	10K	5%	1/4W
R550	1-215-472-00	METAL	130K	1%	1/6W	R805	1-249-429-11	CARBON	10K	5%	1/4W
R551	1-249-432-11	CARBON	18K	5%	1/4W	R806	1-249-429-11	CARBON	10K	5%	1/4W
						/ / / / /					
R552	1-249-433-11	CARBON	22K	5%	1/4W	R807	1-249-429-11	CARBON	10K	5%	1/4W
R553	1-249-406-11	CARBON	120	5%	1/4W	R808	1-249-421-11	CARBON	2. 2K	5%	1/4W
R554	1-249-432-11	CARBON	18K	5%	1/4W	R809	1-249-421-11	CARBON	2. 2K	5%	1/4W
R555	1-249-397-11	CARBON	22	5%	1/4W	R810	1-249-429-11	CARBON	10K	5%	1/4W
R556	1-247-856-00	CARBON	11K	5%	1/4W	R811	1-249-435-11	CARBON	33K	5%	1/4W
R557	1-249-429-11	CARBON	10K	5%	1/4W	R812	1-249-429-11	CARBON	10K	5%	1/4W
R558	1-249-406-11	CARBON	120	5%	1/4W	R813	1-249-413-11	CARBON	470	5%	1/4W
R559	1-247-856-00	CARBON	11K	5%	1/4W	R814	1-249-436-11	CARBON	39K	5%	1/4W
R560	1-249-397-11	CARBON	22	5%	1/4W	R815	1-249-436-11	CARBON	39K	5%	1/4W
R561	1-247-887-00	CARBON	220K	5%	1/4₩	R816	1-247-903-00	CARBON	1 M	5%	1/4W
R562	1-247-887-00	CARBON	220K	5%	1/4W	R817	1-249-425-11	CARBON	4.7K	5%	1/4W
R563	1-249-407-11	CARBON	150	5%	1/4W	R818	1-249-417-11	CARBON	1K	5%	1/4W
R564	1-249-437-11	CARBON	47K	5%	1/4W	R819	1-249-435-11	CARBON	33K	5%	1/4W
R565	1-249-441-11	CARBON	100K	5%	1/4W	R820	1-249-437-11	CARBON	47K	5%	1/4W
R566	1-249-421-11	CARBON	2. 2K	5%	1/4W	R821	1-249-484-11	CARBON	6.8	5%	1/2W
R567	1-249-440-11	CARBON	82K	5%	1/4W	R822	1-249-484-11	CARBON	6.8	5%	1/2W
R568	1-249-440-11	CARBON	82K	5%	1/4W	R823	1-247-854-11	CARBON	9. 1K	5%	1/4W
R569	△1-212-853-00	FUSIBLE	6. 8	5%	1/4W F	R824	1-249-425-11	CARBON	4.7K	5%	1/4W
R570	△1-212-853-00	FUSIBLE	6.8	5%	1/4W F	R825	1-249-425-11	CARBON	4.7K	5%	1/4W
R571	1-249-427-11	CARBON	6. 8K	5%	1/4W	R826	1-249-425-11	CARBON	4.7K	5%	1/4W
R572	1-249-381-11	CARBON	1	5%	1/4W	R827	1-249-425-11	CARBON	4.7K	5%	1/4₩
R573	1-249-421-11	CARBON	2. 2K	5%	1/4₩	R828	1-249-426-11	CARBON	5. 6K	5%	1/4W
R574	1-249-417-11	CARBON	1K	5%	1/4W	R829	1-249-429-11	CARBON	10K	5%	1/4W
R576	1-249-413-11	CARBON	470	5%	1/4W	R830	1-249-429-11	CARBON	10K	5%	1/4W
R577	1-249-417-11	CARBON	1K	5%	1/4W	R831	1-249-427-11	CARBON	6. 8K	5%	1/4W
R578	1-249-421-11	CARBON	2. 2K	5%	1/4W	R832	1-249-428-11	CARBON	8. 2K	5%	1/4W
R603	1-247-717-11	CARBON	2. 2K	5%	1/4W	R833	1-249-429-11	CARBON	10K	5 %	1/4₩
R604	1-247-717-11	CARBON	2. 2K	5%	1/4W	R834	1-249-429-11	CARBON	10K	5%	1/4W
R605	1-247-706-11	CARBON	330	5%	1/4W	R835	1-249-413-11	CARBON	470	5%	1/4W
R606	1-249-556-11	CARBON	1.5K	5%	1/4W						
								< VARIABLE RE	SISTOR >		
R607	1-249-556-11	CARBON	1. 5K	5%	1/4W						
R608	1-249-926-11	CARBON	1. 3K	5%	1/4₩	RV101	1-230-504-11	RES, ADJ, MET.			
R609	1-247-717-11	CARBON	2. 2K	5%	1/4₩	RV102	1-238-601-11	RES, ADJ, CAR			
R611	1-247-704-11	CARBON	220	5%	1/4₩	RV201	1-230-504-11	RES, ADJ, MET.			
R612	1-247-704-11	CARBON	220	5%	1/4W	RV202	1-238-601-11	RES, ADJ, CAR			
P.7.6 -		410				RV301	1-228-993-00	RES, ADJ, MET.	AL 4,7K		
R701	1-249-421-11	CARBON	2. 2K	5%	1/4W						
R702	1-249-421-11	CARBON	2. 2K	5%	1/4W	RV303	1-238-601-11	RES, ADJ, CAR			
R703	1-249-421-11	CARBON	2. 2K	5%	1/4W	RV401	1-228-993-00	RES, ADJ, MET.			
R704	1-249-425-11	CARBON	4. 7K	5%	1/4W	RV403	1-238-601-11	RES, ADJ, CAR			
R706	1-249-425-11	CARBON	4. 7K	5%	1/4W	RV551	1-238-595-11	RES, ADJ, CAR			
2000					1.44	RV552	1-238-595-11	RES, ADJ, CAR	BON 220		
R707	1-249-421-11	CARBON	2. 2K	5%	1/4W	DW	1 000 500				
R708	1-249-421-11	CARBON	2. 2K	5%	1/4W	RV553	1-238-599-11	RES, ADJ, CAR			
R709	1-249-427-11	CARBON	6. 8K	5%	1/4W	RV554	1-238-601-11	RES, ADJ, CAR			
R710	1-249-425-11	CARBON	4. 7K	5%	1/4W	RV801	1-238-599-11	RES, ADJ, CAR	BUN 4.7K		
R711	1-249-431-11	CARBON	15K	5%	1/4W	1					

Note: The components identified by mark 🐧 or dotted line with mark 🐧 are critical for safety. Replace only with part number specified.

MAIN REEL MOTOR PANEL

Ref. 1	No. Part No.	Description			Remarks	Ref. No	. Part No.	Description	<u>on</u>	Ī	Remarks
		< TRANSFORMER >				CNE 21	* 1-564-521-11	PLUG, CONN	ECTOD ED		
		(IRANSPORMER /						BASE POST			
							* 1-560-070-00				
T301	1-433-384-11	TRANSFORMER, BI				CN591	* 1-564-519-11	PLUG, CONN	ECTOR 4P		
T401	1-433-384-11	TRANSFORMER, BI									
T551	1-433-359-11	TRANSFORMER, BI	AS OSCILLATIO)N		CN592	* 1-564-519-11	PLUG, CONN			
						CN593	* 1-564-519-11	PLUG, CONN	ECTOR 4P		
		< TEST PIN >				CN901	* 1-564-336-00	PIN, CONNE	CTOR 2P		
TP551	* 1-564-505-11	PLUG, CONNECTOR	2P					< COMPOSIT	ION >		
TP552	* 1-564-506-11	PLUG. CONNECTOR	3P								
	* 1-564-506-11	PLUG, CONNECTOR	3P			CP901	1-232-881-11	COMPOSITIO	N CIRCUIT BLOCK		
	* 1-564-506-11	PLUG, CONNECTOR				CP902	1-232-881-11		N CIRCUIT BLOCK		
11 001	+ 1 504 500 11	Thou, comboion	. 01			CP903	1-236-985-11		N CIRCUIT BLOCK		
		< VIBRATOR >				C1 300	1 200 303 11	COME COTTTO	ii cincoii booca		
		\ VIDRATOR >						< DIODE >			
	050 01		(1181					(DIODE /			
X801	1-577-358-21	VIBRATOR, CERAM	IIC (4MHZ)					D. CODE 133	11.400		
						D901	8-719-987-63		4148M		
			*			D902	8-719-987-63		4148M		
****	*******	************	******	*****	•	D903	8-719-933-57	DIODE HZ	S9B2L		
						D904	8-719-987-63	DIODE IN	4148M		•
	* 1-632-741-11	REEL MOTOR BOAR	Ď			D905	8-719-987-63	DIODE 1N	4148M		
		***********	*								
						D906	8-719-987-63	DIODE 1N	4148M		
		< CAPACITOR >				D907	8-719-987-63	DIODE 1N	4148M		
						D908	8-719-987-63		4148M		
C1051	1-124-907-11	ELECT	10uF	20%	50V	D909	8-719-987-63		4148M		
		ELECT	10uF	20%	50V	D910	8-719-987-63		4148M		
C1052				20%		D310	0-113-301-03	DIODE IN	4140M		
C1053	1-164-159-11	CERAMIC	0. luF		50V			D. C. D. T. L.	1. 101		
						D911	8-719-987-63		4148M		
		< CONNECTOR >				D912	8-719-302-46	DIODE SE	L1210S-C (REC)		
						D913	8-719-302-45	DIODE SE	L1210S (🛦)		
CN105	1 * 1-564-499-11	PIN, CONNECTOR	6P			D914	8-719-302-79	DIODE SE	L1910A-C (PAUSE)		
CN105	2 * 1-564-718-11	PIN, CONNECTOR	(SMALL TYPE)	2P							
CN105	3 * 1-564-718-11	PIN, CONNECTOR	(SMALL TYPE)	2P				< FILTER >		1.1	
		< RESISTOR >				FLT901	1-519-560-21	INDICATOR	TUBE, FLUORESCENT		
* .											
R1051	1-249-412-11	CARBON	390 5%	1/4W				< IC >			
112001	1 0.0	C. L. C.		-,				,			
						IC541	8-759-634-51	IC M5218	ΔP		
****	**********					IC901	8-759-635-68		0-313SP		
*****	********	• • • • • • • • • • • • • • • • • • • •	**********	******	•	IC902					
	+ + 0000 701 4	DANIEL DOADS COM	DI 1970			10302	8-741-100-48	IC SBX16	10-55		
	* A-2006-781-A	PANEL BOARD, COM						, TACK >			
		***********			>			< JACK >			
			(includ	iink 🛡	A-G)						
		< CAPACITOR >				J541	1-507-796-71	JACK (HEAD	PHONES)		
C001	1-161-744-00	CERAMIC	0.01uF		400V			< TRANSIST	OR >		
C181	1-126-059-11	ELECT	10uF	20%	50V	ļ					
C281	1-126-059-11	ELECT	10uF	20%	50V	Q901	8-729-115-28	TRANSISTOR	BN1L3Z-K		
C341	1-130-473-00	MYLAR		5%	50V	Q902	8-729-119-76	TRANSISTOR	· ·		
C342	1-130-471-00	MYLAR		5%	50V	Q903	8-729-900-61	TRANSISTOR			
0012	1 100 111 00	MIDIO	0.00101	070		Q904	8-729-900-61	TRANSISTOR			
	1_120, 472 00	HIVT AD	0.0015	E&	EOW						
C441	1-130-473-00	MYLAR		5% 5*	50V	Q905	8-729-900-61	TRANSISTOR	DTA114ES		
C442	1-130-471-00	MYLAR		5%	50V		0 000 000 0	min 1110 - 0	NM411400		
C541	1-123-369-00	ELECT		20%	50V	Q906	8-729-900-61	TRANSISTOR			
C542	1-123-369-00	ELECT		20%	50V	Q907	8-729-900-65	TRANSISTOR			
C597	1-161-494-00	CERAMIC	0. 022uF		25V	Q908	8-729-900-65	TRANSISTOR	DTA144ES		
				100		Q909	8-729-900-65	TRANSISTOR	DTA144ES		
C901	1-126-177-11	ELECT	100uF	20%	10V	Q910	8-729-900-65	TRANSISTOR	DTA144ES		
						7					10000
		< CONNECTOR >				Q911	8-729-900-89	TRANSISTOR	DTC144ES	t vers	
						Q912	8-729-900-65	TRANSISTOR			1
CNOOT	* 1-568-226-11	PIN, CONNECTOR	2P		4.11	Q913	8-729-900-65	TRANSISTOR			
CN001		PIN, CONNECTOR				Q914	8-729-900-65	TRANSISTOR			
CHUUZ	1 000 660-11	1 111, COMMECTOR				4914	0 149 900-09	TIVITOTOTON	DINITING		

PANEL

Ref. N	lo. Part No.	Descriptio	<u>n</u>		Ren	<u>narks</u>	Ref.	No. Part No.	<u>Description</u> <u>Remarks</u>
Q915	8-729-900-89	TRANSISTOR	DTC144ES				R925	1-249-425-11	
4010	0 120 000 00	Humororon	DICITIES			•	R926	1-249-441-11	
Q916	8-729-900-65	TRANSISTOR	DTA144ES				R927	1-249-441-11	•
Q917	8-729-900-65	TRANSISTOR	DTA144ES				1.021	1 243-441-11	CARBON 100K 5% 1/4W
Q918	8-729-119-76	TRANSISTOR	2SA1175-HFE				R928	1-249-441-11	CARBON 100K 5% 1/4W
Q919	8-729-900-65	TRANSISTOR	DTA144ES				R929	1-249-433-11	
£010	0 120 000 00	Industrial	DIRITIO				R930	1-249-441-11	
		< RESISTOR	S				R931	1-249-425-11	
		(ALDIDION					Kaai	1-245-425-11	CARBON 4.7K 5% 1/4W
R001	1-247-752-11	CARBON	1K	5%	1/2W		100		< VARIABLE RESISTOR >
R181	1-249-429-11	CARBON	10K	5%	1/4W				
R182	1-249-433-11	CARBON	22K	5%	1/4W		RV541	1-241-330-11	RES, VAR, CARBON 20K/20K (PHONE LEVEL)
R183	1-249-423-11	CARBON	3. 3K	5%	1/4W		RV591	1-238-833-21	RES, VAR, CARBON 20K/20K (REC LEVEL)
R184	1-247-704-11	CARBON	220	5%	1/4W		RV592	1-238-687-11	RES, VAR, CARBON 50K/50K (BALANCE)
							RV593	1-241-329-11	RES, VAR, CARBON 5K/5K (REC LEVEL)
R281	1-249-429-11	CARBON	10K	5%	1/4W		RV594	1-241-328-11	RES, VAR, CARBON 10K/10K (BIAS)
R282	1-249-434-11	CARBON	27K	5%	1/4W				
R283	1-249-423-11	CARBON	3. 3K	5%	1/4W				< SWITCH >
R284	1-247-704-11	CARBON	220	5%	1/4₩		ł		
R381	1-247-721-11	CARBON	4. 7K	5%	1/4W		S541	1-572-583-11	SWITCH, ROTARY (DOLBY NR)
							S542	1-572-764-11	SWITCH, PUSH (2 KEY) (CALIBRATION
R382	1-247-152-00	CARBON	8. 2K	5%	1/4₩				/MPX FILTER)
R383	1-247-725-11	CARBON	10K	5%	1/4W	*	S591	1-572-153-11	SWITCH, PUSH (1 KEY) (INPUT. CD DELECT
R384	1-247-721-11	CARBON	4. 7K	5%	1/4W				/LINE)
R385	1-246-545-00	CARBON	1. OM	5%	1/4W		S592	1-572-582-11	SWITCH, ROTARY (REC EQ CAL)
R386	1-249-462-11	CARBON	22K	5%	1/4W		S701	1-572-267-51	SWITCH, PUSH (AC POWER) (1 KEY) (POWER)
							S801	1-572-268-11	SWITCH, SLIDE (TIMER)
R481	1-247-721-11	CARBON	4. 7K	5%	1/4W		S901	1-554-303-21	SWITCH, TACTILE (COUNTER MEMORY)
R482	1-247-152-00	CARBON	8. 2K	5%	1/4W		S902	1-554-303-21	SWITCH, TACTILE (COUNTER RESET)
R483	1-247-725-11	CARBON	10K	5%	1/4W		1		
R484	1-247-721-11	CARBON	4. 7K	5%	1/4W		S903	1-554-303-21	SWITCH, TACTILE (DISPLAY MODE)
R485	1-246-545-00	CARBON	1. OM	5%	1/4W		S904	1-554-303-21	SWITCH, TACTILE (OPEN/CLOSE)
							S905	1-554-303-21	SWITCH, TACTILE (E)
R486	1-249-462-11	CARBON	22K	5%	1/4W		S906	1-554-303-21	SWITCH, TACTILE (41)
R590	1-249-429-11	CARBON	10K	5%	1/4W		S907	1-554-303-21	SWITCH, TACTILE (>>)
R881	1-249-434-11	CARBON	27K	5%	1/4W				, , , , , , , , , , , , , , , , , , ,
R882	1-249-431-11	CARBON	15K	5%	1/4W		S908	1-554-303-21	SWITCH, TACTILE (REC)
R901	1-249-421-11	CARBON	2. 2K	5%	1/4W		S909	1-554-303-21	SWITCH, TACTILE (▶)
							S910	1-554-303-21	SWITCH, TACTILE (PAUSE)
R902	1-249-421-11	CARBON	2. 2K	5%	1/4W		S911	1-554-303-21	SWITCH, TACTILE (144)
R903	1-247-895-00	CARBON	470K	5%	1/4W		S912	1-554-303-21	SWITCH, TACTILE ()
R904	1-249-433-11	CARBON	22K	5%	1/4W				
R905	1-249-433-11	CARBON	22K	5%	1/4W		S913	1-554-303-21	SWITCH, TACTILE (REC MUTE)
R906	1-249-429-11	CARBON	10K	5%	1/4₩		S914	1-554-303-21	SWITCH, TACTILE (MONITOR)
R907	1-249-425-11	CARBON	4. 7K	5%	1/4W				< VIBRATOR >
R908	1-249-431-11	CARBON	15K	5%	1/4W				
R909	1-249-422-11	CARBON	2. 7K	5%	1/4W		X901	1-577-358-21	VIBRATOR, CERAMIC (4MHz)
R910	1-249-424-11	CARBON	3. 9K	5%	1/4W				
R911	1-249-428-11	CARBON	8. 2K	5%	1/4₩		*****	*******	********
R912	1-2/0-/2/ 11	CADDON	97V	Γ₩	1 //1				MICCELL ANDOUG
R912	1-249-434-11	CARBON	27K	5%	1/4₩				MISCELLANEOUS
	1-249-422-11	CARBON	2. 7K	5%	1/4W				********
R914	1-249-424-11	CARBON	3. 9K	5%	1/4W		150	0 710 000 00	P. C. T.
R915	1-249-428-11	CARBON	8. 2K	5%	1/4₩		156	8-719-980-85	DIODE SLF325C
R916	1-249-434-11	CARBON	27K	5%	1/4W		239	1-632-779-11	PC BOARD, FG
R917	1-240-421-11	CAPPON	157	Co/	1 / / 107		5	* 1-590-321-51	LEAD (WITH CONNECTOR)
R918	1-249-431-11	CARBON	15K	5% 5%	1/4W			▲1-575-651-11	CORD, POWER
R919	1-249-409-11	CARBON	220	5% = °	1/4W		F801	▲1-532-285-00	FUSE, TIME-LAG(1.25A)
R920	1-249-410-11	CARBON	270	5%	1/4W	-	W100-	V 0000 000	
R920 R921	1-249-412-11	CARBON	390	5% 5%	1/4W		M1001	X-3356-638-1	MOTOR (REEL R) ASSY
1.361	1-249-421-11	CARBON	2. 2K	5%	1/4₩		M1002	X-3356-604-1	MOTOR (ASSIST) ASSY
R922	1-249-421-11	CADDON	o ov	re	1 / 199		S1001	1-466-238-11	ENCODER, ROTARY
R923	1-247-903-00	CARBON CARBON	2. 2K	5%	1/4₩		T701	△1-450-856-11	TRANSFORMER, POWER
11020	1 241 303-00	CALDON	114	5%	1/4W	.		Note: The	Δ

Note: The components identified by mark A or dotted line with mark A are critical for safety.

Replace only with part number specified.

Ref. No.	Part No.	Descrip	otion		Remarks	Ref. No.	Part No.	Description			Remarks
	ACCESSORIE	S & PACK	ING MATERIALS					HARDWAR	E LIST		
	*******	******	**********					***********	******		
1-5	558-271-11	CORD, CO	ONNECTION			#1	7-682-547-09	SCREW +BV 3X6,	S TIGHT		
* 3-3	63-900-01	CUSHION				#2	7-685-133-19	SCREW +BTP 2.	6X6 TYPE2 N-S	S	
* 3-3	376-746-01	INDIVIDU	UAL CARTON			#3	7-682-547-04	SCREW +BVTT	3X6 (S)		
3-7	55-112-11	MANUAL,	INSTRUCTION			#5	7-682-548-04	SCREW +BVTT	3X8 (S)		
		(ENGLISH	I/FRENCH/SPAN	I SH/PORTUGUESE) (AEP)	#6	7-682-548-09	SCREW +BVTT	3X8 (S)		
3-7	55-112-41	MANUAL,	INSTRUCTION								
			(GERMAN/DUTC	H/SWEDISH/ITAL	IAN) (AEP)	#7	7-682-147-15	SCREW, TR			
3-7	55-112-51	MANUAL,	INSTRUCTION	(GERMAN) (G)		#8	7-682-548-09	SCREW +B 3X8			
						#9	7-682-547-04	SCREW +BVTT	3X6 (S)		
						#10	7-621-849-00	SCREW (BV/RING)		
						#11	7-628-253-00	SCREW +PS 2X4			
						#12	7-628-254-10	SCREW +PS 2.6	Х6		
						#13	7-671-154-01	STENLESS BALL			
						#14	7-682-648-09	SCREW +PS 3X8			
						#16	7-621-255-20	SCREW +BVTT	2X4 (S)		
				44.4		#17	7-621-255-35	SCREW +BVTT	2X5 (S)		
									(*)		
							7-685-870-01		3X5 (S)		
					5		7-621-772-70	SCREW +B 2X1	4		
						#21	7-622-205-05	NUT M2 TYPE2			
						#22	7-621-775-10	SCREW +B 2.6X			
- :						#23	7-685-533-19	SCREW +BV 2.6X	8 TAPPING		

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